CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
June 19	Elmira, N. Y.	June 15
June 19	Winona, Minn.	June 15
June 19	St. George, N. Y.	June 15
June 20	Hartford, Wis.	June 8
June 20	Fairlands, Okla.	June 15
June 22	Hendersonville, N. C.	June 1
June 23	Irondequoit, N. Y.	June 15
June 26	Brighton, N. Y.	June 15
	Adv. June 15.	
June 27	Storm Lake, Ia.	June 15
	Adv. June 15.	
June 28	Bordentown, N. J.	June 8
June 29	Hazard, Ky.	June 15
	Adv. June 15.	
June 30	Two Rivers, Wis.	June 15
	Adv. June 15.	
June 30	Morrisville, Pa.	June 15
	Adv. June 15.	
July 3	Waubay, S. D.	June 15
July 6	Memphis, Tenn.	June 15
	Adv. June 15.	

SEWERS

June 19	Blasdell, N. Y.	May 25
June 19	Long Island City, N. Y.	June 15
June 20	Paducah, Ky.	June 8
	Adv. June 8 and 15.	
June 20	York, Pa.	June 8
June 21	East Aurora, N. Y.	June 8
	Adv. June 8 and 15.	
June 21	Wash., D. C.	June 1
June 21	Briarcliff Manor, N. Y.	June 8
June 22	Syracuse, N. Y.	June 8
	Adv. June 8 and 15.	
June 24	Mount Morris, N. Y.	June 15
	Adv. June 15.	
June 26	Portland, Me.	June 1
June 26	Verona, Pa.	June 8
June 26	Morris Plains, N. J.	June 15
June 27	Warren, Ark.	June 8
June 27	Louisville, Ky.	June 8
June 28	Glens Falls, N. Y.	June 8
	Adv. June 1 to 15.	
July 1	Hamburg, N. Y.	May 18
July 1	Lima, O.	June 8
July 6	Winter Haven, Fla.	June 8
	Adv. June 8 and 15.	
July 10	Eustis, Fla.	June 15
	Adv. June 15.	
July 18	Lake Forest, Ill.	June 15
	Adv. June 15.	

BRIDGES

June 20	Ixonia, Wis.	June 15
June 20	Ottawa, Ill.	June 15
June 21	Schenectady, N. Y.	May 25
	Adv. May 25 to June 15.	
June 21	Potsdam, N. Y.	June 15
	Adv. June 8 and 15.	
June 22	New Jersey	June 8
	Adv. June 8 and 15.	
June 22	Duluth, Minn.	June 8
June 22	Boston, Mass.	June 15
June 23	Grand Haven, Mich.	June 1
June 23	Georgia	June 15
June 26	Union, S. C.	June 15
June 24	Quebec	June 15
June 27	Annapolis, Md.	June 15
	Adv. June 15.	
June 27	Century, Fla.	June 15
June 28	North Carolina	June 8
June 28	Barnwell, S. C.	June 15
June 28	North Carolina	June 15
July 5	Sturgis, S. D.	May 18
July 1	Cleveland, O.	June 15
July 6	Riverside, Md.	June 15
	Adv. June 15.	
July 11	Williamsport, Pa.	June 15
	Adv. June 15.	
July 11	Central Ferry (Penawawa P. O.), Wash.	June 15
	Adv. June 15.	
Oct. 31	Sydney, Australia	Jan. 12

EXCAVATION AND DREDGING

June 20	Townsend, Ga.	June 15
June 23	Brooklyn, N. Y.	June 15
July 8	New Bern, N. C.	June 8

STREETS AND ROADS

June 19	St. Paul, Minn.	June 1
June 19	Bangor, Pa.	June 8
	Adv. June 8 and 15.	
June 19	Yankton, S. D.	June 8
June 19	Granfield, Okla.	June 15
	Adv. June 15.	
June 19	Phila., Pa.	June 15
June 19	Milwaukee, Wis.	June 15
June 20	Clarksville, Ga.	May 25
June 20	Trenton, N. J.	June 1
June 20	Harrisville, W. Va.	June 8
June 20	Marion, S. C.	June 8
June 20	Columbus, O.	June 8
June 20	East Rochester, N. Y.	June 8
June 20	Wisconsin	June 15
June 20	Marshall, Tex.	June 15
June 20	Maryland	June 15
June 20	Erie, Pa.	June 15
June 20	New York, N. Y.	June 15
June 21	Morristown, N. J.	June 1
June 21	Red Bank, N. J.	June 1
	Adv. June 1 to 15.	
June 21	Avon, N. J.	May 25
	Adv. May 25 to June 15.	
June 21	Long Branch, N. J.	June 1
	Adv. June 1 to 15.	
June 21	Belvidere, N. J.	June 8
	Adv. June 8 and 15.	
June 21	New Mexico	June 8
June 21	Akron, O.	June 15
June 21	Groveton, Tex.	June 15
June 21	Rochester, N. Y.	June 15
June 21	Michigan	June 15
June 21	Wells, Minn.	June 15
June 21	Belvidere, N. J.	June 15
June 22	Marshalltown, Ia.	June 1
June 22	Hooversville, Pa.	June 8
June 22	Michigan	June 8
June 22	Pembroke, Ont.	June 15
June 22	Tracy, Cal.	June 15
June 22	New York, N. Y.	June 15
June 23	Central City, Ky.	June 15
June 23	Ohio	June 15
June 23	Quebec	June 15
June 23	Indiana	June 15
June 23	Indiana	June 15
June 23	Central Falls, R. I.	June 15
	Adv. June 15.	
June 24	Fairmont, W. Va.	May 25
June 24	Dearborn, Mich.	June 15
June 24	Victor, N. Y.	June 15
June 25	Racine, Wis.	June 15
	Adv. June 15.	
June 26	Riverside, Cal.	June 1
June 26	Santa Cruz, Cal.	June 8
June 26	California	June 8
June 26	Sioux Falls, S. D.	June 15
June 26	Richmond, Tex.	June 15
June 26	Wash., D. C.	June 15
	Adv. June 15.	
June 26	Fredonia, N. Y.	June 15
June 26	Massena, N. Y.	June 15
	Adv. June 15.	
June 26	Wash., D. C.	June 15
	Adv. June 15.	
June 27	Pennsylvania	June 8
	Adv. June 8 and 15.	
June 27	Quebec	June 15
June 27	Long Branch, N. J.	June 15
	Adv. June 15.	
June 27	Iola, Kan.	June 15
June 28	Pennsylvania	June 8
	Adv. June 8 and 15.	
June 28	North Carolina	June 8
	Adv. June 15.	
June 28	New Jersey	June 8
	Adv. June 8 and 15.	
June 28	North Carolina	June 15
	Adv. June 15.	
June 28	Freehold, N. J.	June 15
	Adv. June 8 and 15.	
June 29	Michigan	June 15
June 29	Mahnomen, Minn.	June 15
June 30	Michigan	June 8
June 30	Indianapolis, Ind.	June 15
June 30	New York	June 15
	Adv. June 15.	
June 30	Indiana, Pa.	June 15
	Adv. June 15.	
July 1	Charleston, W. Va.	June 15
July 5	Ridgefield Park, N. J.	June 15
	Adv. June 15.	
July 6	Winter Haven, Fla	June 8
	Adv. June 8 and 15.	
July 7	Troy, Kan.	June 15
July 10	Eustis, Fla.	June 15
	Adv. June 15.	

INDUSTRIAL WORK

June 19	Minneapolis, Minn.	June 8
June 21	Peekskill, N. Y.	June 8
	Adv. June 8 and 15.	
June 23	Milwaukee, Wis.	June 15
June 23	New York, N. Y.	June 15
June 26	Central Islip, N. Y.	June 15
	Adv. June 15.	

BUILDINGS

June 19	Oak Hill, O.	May 25
June 19	Leechburg, Pa.	June 1
June 19	Thomasville, N. Y.	June 1
June 19	Conshocken, Pa.	June 15
June 19	St. Paul, Minn.	June 1
June 19	New York, N. Y.	June 15
June 20	Grandview Heights (Columbus P. O.), O.	June 1
June 20	Candor, N. C.	June 8
June 20	Forest Hills, N. Y.	June 8
June 20	Solvay (Syracuse P. O.), N. Y.	June 15
June 20	Lenoir, N. C.	June 15
June 22	Wichita, Kan.	June 8
June 22	New York, N. Y.	June 15
June 23	Harrisburg, Pa.	June 8
June 23	Nashville, Tenn.	June 8
June 23	Cornwall-on-Hudson, N. Y.	June 8
June 23	Riverhead, N. Y.	May 25
June 23	Fowlerville, Mich.	June 15
June 23	Stevens Point, Wis.	June 15
	Adv. June 15.	
June 24	Westerville, O.	June 8
June 24	Winchester, Va.	May 18
June 24	Greenville, S. C.	June 15
June 26	Verona, Pa.	June 8
June 26	Stillwater, Minn.	June 15
June 26	Toledo, O.	June 15
June 27	Worland, Wyo.	June 8
June 28	Norwich, N. Y.	June 8
June 28	Bordentown, N. J.	June 15
June 30	Dunlo, Pa.	June 15
June 30	Sioux Falls, S. D.	June 15
June 30	San Bernardino, Cal.	June 15
June 30	Reedley, Cal.	June 15
July 1	Perry, N. Y.	May 4
July 3	Cleveland, O.	June 15
July 6	Maquoketa, Ia.	June 15
July 6	**Grafton, N. D.**	June 1
July 10	Albany, N. Y.	June 8
July 17	Urbana, Ill.	June 15
	Adv. June 15.	

FEDERAL GOVERNMENT WORK

June 19	Dam—Chilo, O.	May 25
	Adv. May 25 to June 15.	
June 19	Dam—Vanceburg, Ky.	May 25
	Adv. May 25 to June 15.	
June 19	Boiler, etc.—Bloomington, Ill.	June 8
June 19	Heating System — Baltimore, Md.	June 8
June 19	Dredging—Phila., Pa.	June 15
June 20	Disposal Plant — Tucson, Ariz.	June 1
June 20	Repairs to Cable, etc.—Wash., D. C.	June 8
	Adv. June 8 and 15.	
June 20	Coal Chute, etc.—Ft. Benning, Ga.	June 8
	Adv. June 8 and 15.	
June 20	Storehouses — Ft. Benning, Ga.	June 8
	Adv. June 8 and 15.	
June 20	Changes, etc.—New Orleans, La.	June 8
June 20	Fence—Brooklyn, N. Y.	June 8
June 20	Magazines — Ft. Benning, Ga.	June 15
	Adv. June 15.	
June 20	Latrine—Brooklyn, N. Y.	June 15
June 20	Labor—Brooklyn, N. Y.	June 15
June 20	Painting—Brooklyn, N. Y.	June 15
June 20	Machine Shop—Ft. Monroe, Va.	June 15
June 20	Hangars—Ft. Monroe, Va.	June 15
June 21	File Cases—Wash., D. C.	June 8
June 21	Fuel Oil Tanks, etc. — Wash. D. C.	June 8
	Adv. June 8 and 15.	
June 21	Steam Main—Norfolk, Va.	June 8
June 21	Remodeling—Quantico, Va.	June 8
June 21	Repairs—Wash., D. C.	June 8
June 21	Repairs—Anacostia, D. C.	June 8
June 21	Alternators, etc. — Yorktown, Va.	June 8
June 21	Steam Line, etc.—Phila., Pa.	June 15
June 21	Operating Device—Phila., Pa.	June 15
June 22	Stone—Bar Harbor, Me.	May 25
	Adv. May 25 to June 15.	
June 22	Boiler Plant, etc.—Tuskegee, Ala.	June 1
June 22	Roads—California	June 8
June 23	Steel Hangars—Ft. Benjamin Harrison, Ind.	June 1
June 23	Hangars — Bolling Field, D. C.	June 8
	Adv. June 8 and 15.	

Bids Close		See Eng. News-Record
June 23	Oil Burning System, etc. — Ft. Sam Houston, Tex.	June 8
June 23	Boilers—Evansville, Ind.	June 8
June 23	Distribution System—Governors Island, N. Y. Adv. June 15.	June 15
June 23	Storehouse—Oceanport, N. J. Adv. June 15.	June 15
June 26	Steel Hulls — Nashville, Tenn. Adv. May 25 to June 15.	May 25
June 26	Post Office—Vinton, Ia.	June 8
June 26	Quarters—Ft. Benning, Ga. Adv. June 15.	June 15
June 27	School—Wash., D. C. Adv. June 1 to 15.	June 1
June 27	Hospital—St. Louis, Mo.	May 25
June 28	Drainage—Malta, Mont.	May 18
June 28	Engines—Detroit, Mich. Adv. June 1 to 15.	June 8
June 28	Dwellings, etc. — White Fish Point, Mich. Adv. June 15.	June 15
June 29	Hangars, etc. — Boston, Mass. Adv. June 15.	June 15
June 30	Hangars, etc.—Leavenworth, Kan. Adv. June 15.	June 15
July 1	Rubber Hose — Memphis, Tenn. Adv. June 8 and 15.	June 8
July 2	Hangars, etc.—Pittsburgh, Pa. Adv. June 15.	June 15
July 3	Parcel Post Room, etc. — Crookston, Minn.	June 8
July 7	Dredging—Baltimore, Md. Adv. June 8 and 15.	June 8
July 10	Post Office, etc.—Aplachicola, Fla. Adv. June 15.	June 15
July 11	Post Office—Gilmer, Tex. Adv. June 15.	June 15
Aug. 2	Dredges—Wash., D. C. Adv. June 15.	June 15
Aug. 2	Ordnance Buildings, etc.—Pearl Harbor, H. T.	June 15

MISCELLANEOUS

June 20	Transmission Line — Andall, Kan.	June 15
June 20	Transmission Lines—Fairlands, Okla.	June 15
June 20	Inorganic Dust—New York, N. Y.	June 15
June 21	Tunnel — San Francisco, Cal.	June 15
June 23	Marginal Wharf—Camden, N. J.	June 1
June 27	Underground Fire Alarm System—Brooklyn, N. Y.	June 8
June 28	Breakwater—Port Burwell, Ont.	June 15
June 29	Dock, etc.—Troy, N. Y. Adv. June 1 to 15.	June 1
July 19	Turbine and Accessories — New Orleans, La.	May 18

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Lawrenceville — Plans waterworks system. Cost between $25,000 and $30,000. Address H. C. Cloos, Lawrenceville, secy.

N. C., Madison—Bd. Aldermen to sell $70,000 bonds, on June 20, to construct waterworks system. J. C. Thompson, city clk.

O., Rome — Franklin Co. (Columbus) plans laying 1½ mi. 6 in. pipe, pump and standpipe, also drilling 8 in. well, 175 ft. deep, here. E. T. Bradbury, Gugle Bldg., Columbus, engr.

Ia., Oskaloosa—Voted $230,000 bonds to purchase water works, $70,000 to improve same and $370,000 for hydro-electric development on Des Moines River. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Oct. 6 and Dec. 22.

Kan., Phillipsburg — Plans 6½ mi. 8 in. mains, purification plant, pumping plant, etc. $100,000. Black & Veach, Mutual Bldg., Kansas City, Mo., engrs.

Neb., Lincoln—Plans laying mains in Dist. 30, 51st St. from South to Sumner Sts., 52nd St. from South to Sumner Sts., 53rd St. from South to Franklyn Sts., 58th St. from South to Franklyn Sts, Franklyn St. from 53rd to 58th Sts.; Dist. 31, Pawnee St. from 14th to 17th Sts., 1,965 ft. 6 in. and 4,470 ft. 4 in. c.i. pipe. G. W. Bates, city engr.

Okla., Granite—Voted $20,000 bonds constructing waterworks. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Que., Montreal—Plans 25,000,000 gal. reservoir, 500 ft. square and 18 ft. deep, Atwater Ave., $500,000. H. A. Tetreault, dir. pub. wks.

BIDS DESIRED

N. Y., Elmira—June 19, by Elmira Water Bd. furnishing about one hundred fifty 4-8 in. water meters for use on fire lines. G. J. Jarchow, city clk.

N. Y., Brighton—June 26, at office of Water Comrs., 604 Powers Bldg., Rochester, furnishing and laying water pipe, in certain streets in Monroe Ave. Water Dist., here. W. S. Lozier, 321 Cutler Bldg., Rochester, consult. engr.; adv. this issue.

N. Y., Irondequoit—June 23, by Comrs., Helendale Water Dist., 704 Union Trust Bldg., Rochester, 30,00 ft., 6-8 in. mains, hydrants, valves, etc. here. H. C. Kittredge, 704 Union Trust Bldg., Rochester, engr.

N. Y., St. George—June 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Sect. 1, Hillcrest Court, Cary, Carter, Columbus, Coughlan, Dixon, Elm Forest, North Mada, Sommer, Sumner, Wheeler and Zeluff Aves., Catherine and Edgewater Sts., Oxford, Rosebank and Summerfield Places, Haraljo and Lake View Terraces; Sect. 2, Arden, Barton, Bay View, Bedell, Bogardus, Centre, Eagan, Fabian, Fremont, Hull, Lake, Maguire, Manee, Poillon, Prall, Richmond, Ridgewood, Roma, Sharrott St. Lakes and Wieland Aves., Hervey, Manhattan and Margaret Sts., Mill and Woodrow Rds., here.

Pa., Morrisville—June 30, by T. B. Stockham, Burgess and Town Council filtration plant and appurtenances. T. F. Bowe, 110 William St., New York, consult. engr.; adv. this issue.

Tenn., Memphis—July 6, by Bd. Comrs. Artesian Water Dept. at office of Water Dept., Contrs. 1, 2, 3, 4 and 5 in proposed Parkway Pumping Station. W. H. Harrison, genl. supt.; adv. this issue.

Ky., Hazard—June 29, by A. G. Taylor, city clk., constructing 1,000,000 gal. filter plant, pumping station, pumps, reservoir, distribution mains and appurtenances. The J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. this issue.

Wis., Beloit—Taking bids waterworks system at city cemetery, incl. pressure pump, several engines, vitr. sewer and mains. G. E. Hubink, City Hall, engr.

Wis., Two Rivers—June 30, by Bd. Pub. Wks., pipe line and suction well. D. W. Meade & C. V. Seastone, Journal Bldg., Madison, consult engrs.; adv. this issue.

Ia., Storm Lake — June 27, concrete pumping station, $40,000 bonds voted for project. Marten & Sutherland, Storm Lake, engrs. Noted Jan. 5.

Minn., Winona—June 19, by G. W. Hoffman, city clk., extending watermains, 14,774 lin.ft. 6-10 in., class D. c.i. pipe, 10,812 lb. standard class D. c.i. castings, twenty-eight 6-10 in. gate valves etc. $32,827. E. E. Chadwick, city engr.

S. D., Waubay—July 3, extending waterworks system incl. 12,000 ft. 4 and 6 in. c.i. pipe and 80,000 gal. steel tank on tower. J. J. Popp, city aud.

Okla., Fairlands—June 20, by City Clerk, one 30 gal. water tower tank, deep well, 1,100 ft. deep, with pump, motor and distributing system. $50,000. H. G. Olmsted & Co., 415 Oil Exch. Bldg., Oklahoma City, engrs.

Cal., Monterey Park—Bd. Trustees receiving bids for material for water system as follows; 257 ton 4 in. and 797 ton 6 in. c.i. pipe, 52,000 lb. fittings, thirty-four 4 in., sixteen 6 in., eight 8 in., eight 10 in. and three 12 in. gate valves and 130 fire hydrants. Bids will be received later for laying pipe and constructing 1,000,000 gal. rein.-con. reservoir. $275,000 bonds voted. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

BIDS RECEIVED

N. Y., Brooklyn—Mains and appurtenances in East 63rd St., Bay Parkway, J, M, N, Ralph and Utica Aves., from Grippo Contg. Co., 85 Webster Ave., Long Island City, $42,306; N. De Stefano, $43,692; Murphy Bros., 262 Bay 43rd St. $43,862.

Pa., Phila. — Furnishing and installing ash and coal handling equipment, from Specialty Eng. Co., Trenton St. and Allegheny Ave., $65,205, E. Fay & Co., 2 South Mole St., $69,283; F. J. Boas, 216 North Broad St., $72,653; furnishing sand from M. J. McCrudden, Real Estate Trust Bldg., $9,864; patent sleeves and stop valves, from Acme Machine Co., 316 North 7th St., $13,880, A. B. Smith Co., New York City, $14,961. Noted May 18.

O., South Euclid—Opened bids June 6, 10,925 ft. 4-10 in. c.i. mains in Green, Elliott and Felton Rds., from A. Marra Co., Ulmer Bldg., Cleveland, $46,629; Hadden Mall Co., Schofield Bldg., Cleveland, $48,977. Noted June 1.

O., Wellsville—T. R. Snowden, dir. Pub. Serv. opened bids May 27, constructing filtration plant, 3,000,000 gal. capacity, from Pittsburgh Constr. Co., Leasdale St., Pittsburgh, Pa., $141,221; storage reservoir, from Allison Harris Co., East Liverpool, $108,900; 3½ mi. 20,000 ft. c.i. or steel pipe line, from Gangl Constr. Co., 737 2nd Natl. Bldg., Akron, $197,165. Noted May 11.

Wis., Wauwatosa—Opened bids June 2, drilling artesian well 1,000-1,700 ft. deep, (1) 17 in. bore, (2) 15 in. bore, (3) 12 in. bore, (4) 10 in. bore, (5) 8 in. bore, from M. T. Peterson, 120 North Franklin St., Madison, (1) $12 per ft., (2) $11, (3) $8, (4) $7, (5) $5; F. M. Gray, Jr., 105 Wells St., Milwaukee, (1) $12.50, (3) $8.50, (4) $6, (5) $5; W. H. Gray & Bros., 744 Franklin St., Chicago, (1) $15, (2) $7.50, (4) $6.50, (5) $5.50. Noted May 25.

CONTRACTS AWARDED

N. J., Seaside Park—Mayor and Boro Council, 4th and West Central Aves., furnishing and laying c.i. pipe and special castings, to C. W. Mathis & Co., Seaside Park, $31,897. Noted May 4.

D. C., Wash.—Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., c.i. pipe and fittings, to Glamorgan Pipe and Foundry Co., Lynchburg, Va. (1) $0.68, total $13,600, (2) $0.73, $1,825, (3) $0.97, 12,610 (4) $1.06, $1,060 (5) $1.68, $10,920 (6) $1.87, $935 special casting $100, $2,000, freight $3,987, total $46,937. Noted May 18.

Fla., Bradentown—Supervs. Sugar Bowl D. D., constructing drainage improvements, 80,000 cu.yd. excav., to South Florida Drainage & Constr. Co., Arcadia, $0.22½ per cu.yd.

N. C., Greensboro—Constructing 6,000,000,000 gal. reservoir to W. W. Boxley Co., Roanoke, Va., $83,346; pumping equipment to I. Hardemann, Realty Bldg., Charlotte, $8,496.

O., Maple Heights (Bedford P. O.)—Installing 14,735 ft. 4-10 in. c.i. mains in Dunham, Rockside, Raymond, Kohout and Royal Sts., to J. H. McDace, 1452 West 98th St., Cleveland, $40,816. Noted June 8.

Mich., Farmington—C. J. Grace, village clk., 250,000 gal. steel reservoir with c.i. pipe, etc., to Pittsburgh-DesMoines Steel Co., 804 Curry Bldg., Pittsburgh, $25,000. Noted April 27.

Ia., Cedar Rapids—Concrete covered reservoir, 7,500,000 gal. capacity, to J. Klepach Constr. Co., 7 Iowa State Savings Bank, $99,720. Noted May 4.

Minn., St. Paul—Three pump units at McCarrons pumping station, with all accessories, to Allis Chalmers Mfg. Co., 707 Metropolitan Life Bldg., Minneapolis, $140,700. Noted April 13.

Minn., Thief River Falls—For 10,040 lin. ft. 4-6 in. c.i. and 300 lin.ft. 1¼ in. lead pipe, etc., to Coolsaet Bros., Marshall, $16,759. Noted May 11.

Kan., Hutchinson—United Water, Gas & Electric Co. will extend water mains and install new pumps, incl. 22,000 ft. 6 in. c.i. pipe, two 1,000 gal. per minute deep well turbines, motor driven, by day labor. $150,000. J. H. Mullison, engr.

S. D., Wagner — Improving waterworks system, incl. 3,740 lin.ft. 8 in. c.i. pipe, Class C, 1,720 lin.ft. 4 and 6 in. pipe Class B, concrete reservoir and pumphouse, to W. Bonesteel, Wagner.

S. D., Mission Hill—C. B. Allison, village clk., waterworks system, to Bruce & Bickelhaupt, Yankton. $11,973. Noted April 20.

Tex., Center—Excavating and laying 21,790 ft. 2-8 in. c.i. Bell and Spigot pipe and corrugated iron pump house, to Kroeger & Hayner, Moore Bldg., San Antonio, $35,772.

Sewers

PROPOSED WORK

Pa., Erie—Plans 8, 9 and 12 in. tile sanitary service in Elmwood Ave., 28th, 29th, 30th, and Cherry Sts., total $27,100. F. G. Lynch, city engr.

Pa., Sharon—See "Streets and Roads."

Va., Petersburg — See "Streets and Roads."

W. Va., Morgantown—See "Buildings."

N. C., Madison—Bd. Aldermen to sell $30,000 bonds on June 20, to construct sewerage system. J. C. Thompson, city clk.

O., Columbus—Bd. Comrs. Franklin Co. plans sanitary sewer in territory east of Parsons Ave. from Kian Ave. to Marion Rd. and in Marion to Lockbourne Rds. 15, 18 and 24 in. at various places. $27,700.

O., Dayton—Montgomery Co. plans 10,000 ft. 6-24 in. vitr. clay and concrete

Sewers (Continued)

sanitary sewers in Lakeside Sanitary Sewer Dist. 1, $200,000; 15,000 ft. 6-24 in. vitr. clay sanitary sewers in Westwood Sanitary Sewer Dist. 1, $280,000. K. B. Allen, U. B. Bldg., engr.

O., Dayton—See "Streets and Roads."

Mich., Detroit—Had plans prepared 4,937 ft. sewer in Trombley Ave. from St. Aubin to Mt. Elliott Aves., 4 ft. to 6 ft. 3 in. diam., 3,853 ft. Harper Ave. Arm, Sect. 1 of Ashland Ave. Sewer, in Harper Ave. from Alter Rd. to point 1,967 ft. north of Harper Ave., 4 ft. 3 in. to 8 ft. 6 in. diam., 2,813 ft. Harper Ave. Ext. of Ashland Ave. Sewer, in Harper and Nelson Aves. from Newport to Wade Aves., 3 ft. 3 in. to 4 ft. 3 in. diam., 2,669 ft. Carrie Ave. Arm of North Six Mile Rd. Sewer, in Carrie Ave. from Six Mile Rd. to Nevada Ave., 3-5 ft. diam., 2,905 Moran Ave. Arm of McDougall Ave. Sewer, in Leland Ave. from McDougall to Moran Aves., and Moran Ave. from Leland to Garfield Aves. 20-45 in. diam., brick, monolithic concrete or vitr. segment block. J. W. Reid, city engr.

Mich., Menominee—Soon takes bids 24 and 30 in. vitr. sewer in Jenkins St., Elizabeth, Wells and Somerville Aves. $25,000. T. R. Hasley, city engr.

Ia., Blairstown—Making plans and opens bids about August 1, 3 mi. 6-12 in. sanitary sewers. $32,000. M. Tschirgi & Son, 711 Amer. Trust Bldg., Cedar Rapids, engrs.

Tex., Port Arthur—Plans laying 50,000 ft. vitr. clay pipe. Nagle, Rollins & Witt, Port Arthur, engrs.

Cal., Merced—Election soon to vote on $60,000 bonds improving and enlarging sewers. C. D. Martin, city engr.

Cal., San Luis Obispo—Voted $20,000 bonds for sewer improvements; $15,000 bonds for septic tank; $8,500 bonds for culverts, $15,000 bonds for bridges. W. B. Burch, Lowe Bldg., engr. Noted May 4.

Cal., San Pablo—San Pablo Sanitary Dist. had plans prepared Chesley Ave. Lateral Sewer 2, 23,408 lin.ft. 6 in. vitr. pipe; Market St. Lateral Sewer 1, 28,740 lin.ft. 6 in. and 2,300 lin.ft. 8 in. vitr. pipe; Church St. Lateral Sewer 3, 8,008 lin.ft. 6 in. and 655 lin.ft. 8 in. vitr. pipe; Belmont Ave. Lateral Sewer 4, 3,364 lin.ft. 6 in. vitr. pipe. R. Calfee, 221 South 22nd St., Richmond, engr.

Cal., Stockton—Had plans prepared constructing North St. Sanitary Project, 210 lin.ft. 4 in. and 1,694 lin.ft. 6 in. pipe, etc.; Fair Oaks North Sanitary Project, 12,730 lin.ft. 4 in. and 15,900 lin.ft. 6 in. pipe, etc. W. B. Hogan, city engr.

Hawaii, Honolulu—Plans to sell $500,000 bonds for sewerage system at Waikiki. F. Ohrt, engr. and W. A. Wall, mgr., c/o Sewer & Water Dept.

BIDS DESIRED

N. Y., Long Island City—June 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Brown Pl., Bittman St., Whitlock, Juniper and Fifth Aves. $50,000.

N. Y., Mount Morris—June 24, extension of present 18 in. outlet sewer. Hopkins & Field, 249 Cutler Bldg., Rochester; adv. this issue.

N. Y., New York—See "Streets and Roads."

N. J., Morris Plains—June 26, by B. G. Lewis, comr. State House, reconstructing sewage disposal plant at state hospital, incl. 75 x 100 ft. concrete tank 12 ft. deep, etc. $30,000. A. B. Mills, 142 West State St., Trenton, engr.

Pa., Indiana—See "Streets and Roads."

Fla., Eustis—July 10, 3 mi. 8-12 in. sewers and 1 disposal plant complete. H. S. Jaudon Eng. Co., Elberton, Ga., engr.; adv. this issue.

Ill., Lake Forest—July 18, by Bd. Trustees North Shore Sanitary Dist. of Lake County, 295 Anderson Bldg., for sewage treatment plant and appurtenances. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, engrs.; adv. this issue.

Wis., Beloit—See "Waterworks."

BIDS RECEIVED

Pa., Phila.—Opened bids June 1, branch sewers in (1) Washington Lane from Morton to Ross Sts., (2) Rittenhouse St. from Chew to Macmahon Sts. and Boyer St. from Haines to Stafford Sts., (3) Rittenhouse St. from Ardleigh to Andrews Sts., (4) Rittenhouse St. from Chew to Ardleigh Sts. and Westview St. from Wayne to Sherman Sts., (5) Norwood St. from Snyder Ave. to Jackson St.; (6) Price St. from Chew to Macmahon Sts. and Filbert St. from 52nd St. west, (7) Hegerman St. from Princeton Ave. to Friendship Ave., Keystone St. from Howell to Comly Sts., Luzerne St. from Germantown to Hunting Park Aves., (8) Fox St. from Juniata St. to Roberts Ave., Wissahickon Ave. from Pleasant Ave. to Sedgwick St., (9) Dickinson St. from Delaware Ave. to Front St., Kingessing Ave. from Howell to Comly Sts., (10) Cornwall St. from Jasper to Emerald Sts., Pratt St. from Cottage to Jackson Sts., Stafford St. from Ardleigh to Anderson Sts., (11) Bonsall St. from McKean St. to Snyder Ave., Columbia Ave. from 59th St. to Lancaster Ave., Elling St. from Allegeny Ave. to Willard St., (12) Arlington St. from 52nd to 54th Sts. and Berks St. from 52nd to 54th Sts., (13) Allengrove St. from Castor Rd. to Roosevelt Blvd., 59th St. from Oxford to Columbia Aves., Wakeling St. from Castor Rd. to Roosevelt Blvd., (14) Anderson St. from Price to Haines Sts., from A. A. Pastori, 5904 Woodland Ave., (1) $25,048, (6) $5,019, (11) $25,942, (12) $23,873; J. J. McHugh, 1712 Race St., (1) $28,834, (2) $43,600, (3) $7,663, (14) $3,159; Girard Constr. Co., 2930 Diamond St., (1) $32,169; E. T. Bennis, 641 East Chelten Ave., (2) $37,797; E. Leva, 3851 North 10th St., (2) $38,463; A. Devito, 1721 Hicks St., (3) $6,458, (4) $9,305, (14) $3,020; A. J. Ellis, 5724 North Marshall St., (3) $7,785, (10) $7,926, (11) $34,375; D. MacMahon, Germantown Ave., (4) $9,135; A. J. Henderson, Chew and Price Sts., (4) $9,798; F. Borelli, 6413 Callowhill St., (5) $624; M. Matia, 263 Simpson St., (5) $725, (6) $4,612, (9) $4,642; J. Lombardi, Lincoln Bldg., (5) $726; D. DeLise, 4842 Leightgow St., (6) $5,122, (9) $4,455; A. De Sandro & Sons, 3906 North 50th St., (7) $17,121, (13) $25,983; McCool Constr. Co., 5033 Duffield St., (7) $17,888; W. H. Yettman, Jr., Lincoln Bldg., (7) $19,710, (8) $32,444, (9) $4,897, (10) $8,634, (11) $29,050, (13) $27,620; E. Pascuzzi, Lincoln Bldg., (8) $26,909; F. T. Buckins, 4050 Kensington Ave., (8) $31,923, (10) $8,069 (13) $23,896; R. Higgins, 4642 Lancaster Ave., (12) $18,943; W. H. Garson, 5033 Brown St., (12) $22,963; C. Ricciardri, 1226 South Juniper St., (14) $4,970. Noted May 18.

Fla., Jacksonville — Sewers in 23rd, Talleyrand, 12th, Copeland and Spearing Sts., 1,800 ft. 36 x 72 ft. rein.-con. monolithic storm drains, 1,650 ft. 24 in. rein.-con. and 2,150 ft. 8 in. vitr. clay sewer pipes, from B. Thompson, Box 1044, Tampa, $27,192; J. E. Bryan, Phelps St., $41,285; I. C. Mischler, 418 5th Ave., West Palm Beach, $48,676.

O. Cleveland Heights (Warrensville, P. O.)—Opened bids June 5, mains in (1) Woodbridge Rd., (2) Oxford Rd., (3) Quilliams Rd., 11,800 ft. 8-24 in. vitr. pipe, from Hadded Mall Co., Schofield Bldg., Cleveland, (1) $16,372, (2) $12,888, (3) $26,765; Salem & George Bros., Bradley Court, Cleveland, (1) $17,475, (2) $13,111; A. Marra Co., Ulmer Bldg., Cleveland, (3) $28,674. Noted June 1.

O., Euclid—Opened bids June 5, sewers in (1) Perry Ave., (2) Renwood Rd., (3) Republic Ave., (4) Shore View Rd., (5) Tracy Ave., 6) Tyronne Rd., (7) Ivan Rd., (8) Liberty Rd., (9) Monterey Rd., (10) Brewer Ave., (11) Cushman Rd., (12) Evergreen Rd., (13) Fuller Rd., (14) Dodings Rd., (15) Oriole Rd., (16) Overlook Rd., (17) Pond Ave., (18) Nicholas Rd., (19) Arbor Rd., 20) Goller Ave., (21) East 207th St., (22) East 210th St., (23) Erieview Rd., (24) Rechter Ave., (25) Ormiston Rd., (26) Abbey Rd., (27) Beachview Rd., from A. J. Galvin, Columbia Bldg., Cleveland, (1) $2,953 (2) $11,920, (5) $9,627, (9) $13,375, (13) $12,647, (17) $12,109 (20) $10,824, (25) $4,940, (27) $3,791; J. B. Lynn, Euclid, (1) $3,385, (3) $8,915, (4) $12,293 (5) $10,338, (7) $3,393, (8) $8,550, (15) $12,493, (16) $17,294; T. P. Eagan, Caxton Bldg., Cleveland, (2) $13,620; (9) $13,848; Gantose Constr. Co., Columbia Bldg., Cleveland, (6) $6,613; Hadded Mall Co., Schofield Bldg. Cleveland, (6) $6,637, (7) $3,590, (13) $12,561, (17) $11,857, (18) $6,835, (19) $11,108, (23) $13,956, (25) $5,652; Kassouf Co., 3182 West 25th St., Cleveland, (10) $11,848; A. Marra, Ulmer Bldg., Cleveland, (10) $13,038, (18) $6,545; C. Hukari, Cleveland, (11) $2,796; (27) $4,063; B. J. Whittaker, West 98th St., Cleveland, (11) $2,882, (14) $2,900; A. C. Hattendorf, 13601 Sixth Ave., East Cleveland, (12) $2,831, (19) $10,326, (20) $10,981, (21) $5,603, (22) $3,540, (24) $4,217; J. Consolo, Cleveland, (21) $7,178, (22) $4,165, (26) $12,883. Iafornaro Constr. Co., 3218 Murray Hill Rd., Cleveland, (23) $13,638. Noted May 18.

Mich., Detroit—Opened bids for Outlet Channel of Lonyo Rd. Sewer, from Gass-Thurston Co., 1520 15th St., $116,994; T. A. Gillespie Co., 1,107 Ford Bldg., $132,134; Lenna & McIlvenna, 1205 Book Bldg., $172,968; also for following laterals (1) 3,504, (2) 3,548, (3) 3,597, (4) 3,638, (5) 3,650, (6) 3,657 (7) 3,659, from Detroit Contg. Co., 823 Ford Bldg., (1) $8,700; Western Constr. Co., 1208 Ford Bldg., (1) $8,196, (2) $17,981, (4) $25,884, (5) $40,364, (7) $19,309; Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., (1) $8,830; Oakwood Constr. Co., 165 Fort Blvd., (2) $20,000, (3) $9,900, (4) $28,000, (5) $42,600, (6) $38,000, (7) $19,829; Hammen & Co., Mankato, Minn., (2) $20,450, (3) $6,276, (5) $43,375, (6) $21,945; Judd Co., 2287 12th St., (4) $24,778, (6) $20,225, (7) $17,348.

Wash., Seattle—Opened bids June 10, trunk sewer in Murray Ave. et al., from Scalzo & Co., 1708 22d Ave., South Seattle, concrete trunk with concrete laterals, $225,404; brick trunk with clay laterals, $229,546.

Cal., San Francisco—See "Streets and Roads."

CONTRACTS AWARDED

N. Y., Canandaigua—Sewage disposal plant and sewers, to Rochester Vulcanite Pavement Co., Rochester, $75,930.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Tower Pl., to Peace Bros., Inc., 20 Main St., Flushing, $2,257; sewer basins in Liberty Ave., 4th Ward, to M. Paino Co., 32 Court St., Brooklyn, $12,100. Noted June 8.

N. Y., Rochester—See "Streets and Roads."

Va., Potomac—Sanitary sewers and appurtenances at and adjoining here, to F. Mannella, 1508 North Lang Ave., Pittsburgh, Pa., $65,000. Noted June 1.

Ky., Louisville—Sewerage comrs., laying sewers incl. 3 inverted siphons under Middle Fork of Beargrass Creek, to C. F. Smith & Son, 54 Davies Bldg., Dayton, O., $23,540. Noted April 27.

O., Akron—E. A. Zeisloft, Pub. Serv. Dir., 3,430 ft. 30-72 in. brick and 7,000 lin.ft. 6-24 in. vitr. clay sewer in Wolf Ledge Run Sewer Dist., to A. W. Morette, 23 East Exchange St., $58,657. Engrs. est. $76,492.

Mich., River Rouge—R. Peters, city clk., 7,000 ft. trunk sewer in Jefferson and Stoner Aves., 3-6 ft. diam., to H. W. Watts, River Rouge, $100,000. Noted May 4.

Mich., Springwell—B. P. Esper, village clk., sewage treatment plant, Sect. 7, to Cooper-Wildenmann Constr. Co., 1430 Penobscot Bldg., Detroit, $238,500. Noted May 25.

Minn., Stillwater—Extending main sewer and ten branches, 17,789 ft. 8-36 in. pipe, Y branches, 59 manholes, etc., to DeGraff Wolff, 985 Scheffer St., about 49,000.

Minn., Thief River Falls—For extending sewers in various streets 10,280 lin.ft. 6-12 in. pipe, etc., to Coolsaet Bros., Marshall, $16,159. Noted May 11.

Tex., Center—Sewerage system and disposal plant, incl. 12,635 ft. 6-12 in. vitr. clay pipe, septic tank and settling basin, to Kroeger & Hayner, Moore Bldg., San Antonio, $20,622. Noted May 18.

Wash., Tacoma—Will build 4,695 ft. 21-39 in concrete storm and sanitary sewer in Puget Gulch (north portion of city), by day labor, under supervision of J. C. Manley, city engr. $65,200.

Bridges

PROPOSED WORK

Pa., Pittsburgh—Pennsylvania R.R., Penn Sta., having plans prepared rein.-con. highway bridge over tracks of Turtle Creek Branch extension to Saltsburg. R. M. Trimble, Penn Sta., assist. engr.

North Carolina—State Hy Dept., Raleigh, rejected bids opened May 25, constructing rein-con. bridges and culverts, on State Project 888, Yancey Co. Will readvertise. $40,000. Noted June 8.

S. C., Charleston—South Carolina State Hy. Dept., Columbia and Charleston Sanitary Drainage Comn., Charleston, having plans prepared for bridge, over Ashley River, near here. $500,000.

Fla., Quay—St. Lucie Co. (Ft. Pierce) voted $35,000 bonds constructing 5,000 ft. timber trestle and sand fill, over Indian River, here. R. D. Carter, Vero, engr.

Neb., Geneva—Fillmore Co. plans Bridge p. 541 between Sect. 9-16 Bryant Twp., one 16 ft. concrete slab, concrete abutments, 20 ft. Roadway; Bridge H 221, between Sects. 26-35, Belle Prairie Twp., one 20 ft. concrete arch, 16 ft. roadway, concrete abutments, alternate of 20 ft. I beam slab, 16 ft. roadway on steel pile abutments; Bridge N 241, between Sects. 28-33, Bennett Twp., one 20 ft. arch, 16 ft. roadway, concrete abutments, alternate of 20 ft. I beam, 16 ft. roadway, steel pile abutments;

Bridges (Continued)

Bridge M B31, between Sects. 23-24, Grafton Twp., one 16 ft. concrete slab, 16 ft. roadway, concrete abutments, alternate of 17 ft. I beam, 16 ft. roadway, steel pile abutments; Bridge B F61, between Sects. 5-6, Glengary Twp., one 16 ft. concrete arch, 16 ft. roadway, concrete abutments, alternate of 16 ft. I beam, 16 ft. roadway, steel pile abutments; Bridge L G61, Fillmore Bridge, one 85 ft. pony truss, 20 ft. roadway, concrete deck and abutments, wood piling. W. A. Biba, co. engr.

Tex., Ballinger—Runnels Co. plans 300 ft. bridge, over Elm Creek, on State Highway 7, east of here, with one 125 ft. steel truss span on concrete piers and concrete trestle approaches. $30,000. U. Stephens, co. engr.

Tex., New Boston—See "Streets and Roads."

Cal., San Luis Obispo—See "Sewers."

BIDS DESIRED

Mass., Boston—June 22, by Met. Dist. Comr., 1 Ashburton Pl., 790 ft. steel and concrete bridge 65 ft. wide, over Niponset River, between here and Quincy. $500,000. Noted Feb. 3, 1921.

Conn., Kent—C. J. Bennett, comr. State Hy. Dept., Harford, taking bids, steel superstructure for bridge, to have two 106 ft. spans, over Housatonic River, near Kent School, here.

N. Y., Potsdam—June 21, by Town Clerk, building 4 concrete-steel arch bridges, across Paquette River, as follows, East Channel and West Channel Bridges, here, Norwood Bridge in Norwood, Hewittville Bridge in Hewittville. Concrete-Steel Eng. Co., Park Row Bldg., New York, engrs.; adv. this issue. Noted May 4.

Pa., Williamsport—July 11, by Bd. Comrs. Lycoming Co., rein.-con. bridge and an alternative steel riveted truss bridge over west branch of Susquehanna River, between Arch St., West Williamsport and High St., Duboistown. M. C. Krause, Susquehanna Trust Bldg., consult. engr.; adv. this issue.

Md., Annapolis—June 27, by State Roads Comn., Baltimore, bridge over Severn River, near here, Anne Arundel Co., Contr. AB-10a; adv. this issue.

Md., Riverview—July 6, by Bd. Comrs., Anne Arundel Co. (Annapolis) constructing 1,680 ft. bridge across South River here to a point connecting Public Rd. at Tuckers Landing. Not to exceed $50,000. S. O. Tilghman, clk.; adv. this issue.

North Carolina—June 28, by State Hy. Dept., Raleigh, constructing rein.-con. bridges and culverts, on State Project 200, Carteret Co. $25,000. C. M. Upham, state highway engr.

S. C., Barnwell—June 28, by Comrs. Barnwell Co., rein-con. bridge, with ten 22 ft. spans, over Salkehatchie River, on Kline-Williston Rd., 125 cu.yd. dry and 340 cu.yd. wet excav., 296.7 cu.ft. concrete, 440 sq.yd. rock asphalt.

S. C., Union—June 26, by W. B. Deneen, Union, engr., constructing rein.-con. bridge, with four 22 ft. spans, over Padgett Creek, also bridge, thirteen 22 ft. concrete spans and one 168 ft. steel span, over Tiger River, 1,088 sq.yd. asphalt, both on Union-Whitmire Rd., Union Co.

Georgia—June 23, by State Hy. Dept., Court House, Sylvester, 3 concrete and steel bridges on Sylvester-Tipton Rd., Federal Aid Project 230, Route 32. E. J. Smith, Thomasville, engr.

Fla., Century—June 27, by Escambia Co. (Pensacola), constructing rein.-con. deck girder bridge on 6 rein.-con. piers and 2 rein.-con. abutments on timber foundation piles, 18 ft. clear roadway, over Escambia River, near McCurdys. $30,000. W. E. Wheat, Pensacola, engr.

O., Cleveland—July 1, Comrs. Cuyahoga Co., concrete viaduct, on West 73rd St., 10,100 cu.yd. concrete, 460,000 lb. reinforcing steel bars, 20,000 cu.yd. earth approach and fill, etc. $281,567. F. J. Lander, Court House, engr. Noted March 30.

Ill., Ottawa—June 20, La Salle Co. for East Main Street Bridge, three 73 ft. spans, 40 ft. roadway, two 7 ft. sidewalks, incl. construction of temporary bridge. $93,500. G. L. Farnsworth, Court House, co. engr.

Wis., Ixonia—June 20, by Jefferson Co., State Road and Bridge Comn., Jefferson, McCall Bridge over Rock River, on State Trunk Highway 19, with five 45 ft. deck concrete girder spans, 26 ft. roadway, 4 ft. sidewalk. R. D. Royce, comr.

Mo., Chillicothe—July 13, by Bd. Supervs. Grand River D. D., 560 lin.ft. steel bridges. Morgan Eng. Co., Memphis, Tenn., engrs.; adv. this issue.

Wash., Central Ferry (Penawawa P. O.)—July 11, by J. Allen, superv. Highways, Olympia, steel bridge, concrete substructure, across Snake River, here; adv. this issue.

Quebec—June 24, by W. A. Kingsland, genl. mgr., Canadian Natl. Rys., Bank of Toronto Bldg., 9 bridges, on Nipissing Div., 2 bridges on Ottawa Div. and 6 bridges on Montreal Div. $250,000.

BIDS RECEIVED

Pa., Phila.—F. H. Caven, dir. Pub. Wks., opened bids June 1, for 247 ft. rein.-con. and steel bridge, South St., from Monaghan & Loosse, 3016 Chestnut St., $97,161; F. J. Boas, 201 North Broad St., $101,000; Lolove & Lewis, Real Estate Trust Bldg., $115,873. Noted May 18.

Missouri—State Hy. Dept., at div. office Trenton, opened bids May 18 two 100 ft. steel truss and two 60 ft. pony truss spans, on Federal Aid Project 116, Sect. B, Grundy Co., from St. Joseph Structural Steel Co., 9th and Atchison Sts., St. Joseph, $36,075; M. E. Gillioz, Monett, $40,776; J. A. Hartman, St. Joseph, Kirschner Add., $45,261. Noted May 11.

CONTRACTS AWARDED

Conn., Kent—C. J. Bennett, comr. State Hy. Dept., Hartford, substructure and road approaches to steel bridge, over Housatonic River, near Kent School, here, to C. W. Blakeslee & Sons, Inc., 58 Waverly St., New Haven, $13,830. Noted June 8.

N. Y., Castleton—New York Central R.R., Grand Central Terminal, New York, erecting steel for superstructure of bridge, over Hudson River, here, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $700,000. Cost of steel delivered, $1,700,000. Noted June 1.

N. Y., Frewsburg—Town of Carroll rejeected bids opened May 29, for 3 bridges, 1 on Sta. 30 plus 51, 1 on Sta. 121 plus 66 and other on Sta. 220 plus 25 all 1:2:4 mix concrete here. Work will be done by day labor under supervision C. J. Oberg, town highway supt., Frewsburg. Noted May 25

Pa., Farrell—Comrs. Mercer Co. (Mercer), Bridge 2305, concrete girder, 65 spans, Fruit Ave., to W. B. McIntyre & Son, Sharon, $38,963. Noted May 11.

North Carolina—State Hy. Dept., Raleigh, constructing rein.-con. bridges and culverts on State Project 614, Cabarrus Co., to Olliver & Costello Bros., Knoxville, Tenn., $37,714, State Project 316, Brunswick Co., to Batson-Cook Co., West Point, Ga., $25,131; constructing structural steel and rein.-con. bridges and culverts on State Project 364B, Onslow Co., to A. W. McClay, 2400 Grove Ave., Richmond, Va., $41,744. State Project 502, Alamance Co., to Hanford Bros., Burlington, $58,250. Noted June 8.

Tennessee—State Hy. Comr., Nashville, bridges over 20 ft. span, on Federal Aid Project 49, to J. B. Ramsey, Fayetteville, $73,744; on Federal Aid Project 84, to Luten Bridge Co., 405 East 4th St., Knoxville, $14,622. Noted June 1 under "Streets and Roads."

Ohio—Dept. Highways and Pub. Wks., Columbus, building bridge on Sect. "D" Eaton-Hamilton Rd. Preble Co. and steel superstructure on Sect. "D" Eaton-Hamilton Rd., Preble Co., to Swingle & Robinson, 961 South High St., Columbus, $32,714 and $16,251 respectively. Noted June 8.

O., Kenmore—Summit Co. (Akron) 535 ft. steel and concrete bridge and approaches, here, to Harbaugh Constr. Co., Cherry St., Akron, $188,417. Contractor has sublet entire job to T. E. McShaffrey Constr. Co., South Forge St. Noted April 27.

O., Moraine (Dayton, P. O.)—Comrs. Montgomery Co., (Dayton) 2 concrete abutments and 1 pier for new bridge, over Miami River, to G. M. Wiley, Tippecanoe City, $34,000. Noted May 11.

S. D., Yankton—Yankton Co., 24 bridges and culverts, to Monarch Eng. Co., Falls City, Neb., $34,500.

Tex., Cameron—Milam Co. two 200 ft. steel span bridge across Brazos River, on road from Marlin to Belton, on 50 concrete piers, to take place of 300 ft. span washed out recently, to Austin Bros. Bridge Co., 1813 Clarence St., Dallas St., Dallas, $52,850.

Colorado—See "Streets and Roads."

Wash., Seattle—Bd. Pub. Wks., constructing superstructure for West Spokane St. Bridge, to J. A. McEachern Co., Colman Bldg., $264,497.

Cal., Eureka—Supervs. Humboldt Co., constructing 2 concrete bridges, over Van Dusen River, to Boardwell & Zimmerman, Calistoga, $68,916. Engrs. est. $40,000 each. Noted May 25.

B. C., Victoria—City Clerk, removing old bridge and building superstructure of 380 ft. Johnson St. Bridge, to Canadian Bridge Co., Walkerville, Ont., $197,400. Noted April 27.

Dams

CONTRACTS AWARDED

Wis., Peshtigo—See "Streets and Roads."

Railways

PROPOSED WORK

Pennsylvania—Erie R. R. Co., 50 Church St., New York, plans to double track its New Castle Branch, between New Castle and Ferrona, here. R. C. Falconer, New York, ch. engr.

Ontario—Michigan Central Ry., Talbot St., St. Thomas, having plans prepared extending yards and laying approximately 4 mi. new sidings, incl. 50,000 cu.yd. gravel. $150,000. D. W. Donohue, supt.

CONTRACTS AWARDED

New York—International Ry., Inc., 70 West Huron St., Buffalo, will reconstruct 8,000 ft. single track and lay additional 8,000 ft. track, on Bailey Ave., Buffalo. $110,000. Work will be done by day labor under supervision of H. E. Riexinger, c/o owner, ch. engr.

Excavation and Dredging

PROPOSED WORK

Fla., Bushnell—Sumpter Co. voted $150,000 bonds for 500,000 cu.yd. excavation. E. McCutchen, Center Hill, engr.

Miss., Greenwood—Honey Island D. D., making surveys for levees and interior ditch system to reclaim about 150,000 acres of land. Morgan Eng. Co., Goodwyn Inst., Memphis, Tenn., engrs.

Ark., Wynne—Cross Co. D. D. 3, had plans prepared 52 mi. open ditches to reclaim 48,000 acres of land, incl. 1,700,000 cu.yd. floating dredgework. $250,000. W. S. Newsom, Wynne, engr.

BIDS DESIRED

N. Y., Brooklyn—June 23, by E. Riegelmann, boro pres., Boro Hall, dredging Wallabout and Gowanus Canals.

Ga., Townsend—June 20, by Jackey Camp D. D., 6¼ mi. dredged ditch, 225,622 cu.yd. excav. incl. 9.9 mi. lateral ditches, 110,489 cu.yd. excav. W. D. Alexander, drainage engr.

CONTRACT AWARDED

Wis., Manitowoc—Dredging 90,000 cu.yd. Manitowoc River, to McMullen & Pitz, 915 Commercial Bank Bldg., $0.305 per cu.yd. Noted May 25.

Minn., Bemidji—Beltrami Co., Judicial Ditch 45, 7 mi. open work, 300,000 cu.yd. excav., to G. Potter, Grygla, $53,000. Noted May 18.

Streets and Roads

PROPOSED WORK

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, rejected bids opened May 12, curbing and paving roadway of Coney Island Ave., etc. Will readvertise. Noted May 18.

N. Y., Chili Station—Monroe Co. (Rochester) plans resurfacing 1 mi. Scottville Rd., rein.-con. $34,000. County Eng. Dept., Rochester, engrs.

N. Y., Geneva—Plans road improvements and paving. $110,000.

N. Y., Gouverneur—Plans paving John St., concrete. $35,000. A. M. Jepson, village clk.

N. Y., Kenmore—Plans paving with rein.-con., McKinley, Cornell, Linden, Crosby, Hazeltine, Lincoln, Victoria and Myron Sts.; resurfacing with asphalt West Hazeltine St. $94,740.

N. Y., Lackawanna—Plans paving Kirby Ave. $30,000. Address B. McDonnell, comr. Pub. Wks.

N. Y., Rensselaer—Plans resurfacing East St. $25,000-$30,000. L. Greenalch, city engr.

New Jersey—State Hy. Dept., Trenton, plans improving 5 mi. Highland Park-Metuchen Rd. $500,000. T. F. Wasser, Broad St. Bank Bldg., Trenton, engr.

N. J., Trenton—Mercer Co. plans improving 2½ mi. Upper River Rd. from Washington's Crossing to Scudder's Falls and 2 mi. White Horse-Yardville Rd., both concrete. H. F. Harris, Court House, engr.

Pa., Bradford—Chamber of Commerce and Bradford Auto Club, plans to resurface Route 96, with cement. $30,000. Address W. J. Healy, chn. road bldg. comn., c/o Bradford Auto Club.

Streets and Roads (Continued)

Pa., Erie—Plans grading, paving and curbing Chestnut St., $25,720, also paving with asphalt Perry St., in triangle bounded by Brown Ave., 26th and Cranberry Sts., $36,850. F. G. Lynch, city engr.

Pa., Erie—Plans grading, paving and curbing Plum St., brick or block; cement sidewalks on 29th, 20th, French, Raspberry, 25th and Cranberry Sts. $25,000. F. G. Lynch, city engr.

Pa., Kittanning—City and Armstrong Co. plans paving 4 mi. Kaylor Rd. from Allegheny River to Kaylor. $200,000.

Pa., Sharon—Takes bids about July 5, new pavements on 4 streets, resurfacing 5 streets, reconstructing East State St. with brick and asphalt, also trunk sanitary sewers in Clark Ave. and Union St., straight sanitary sewers in Highland Rd., Quimby and Morton Sts., Sherman, Cedar and Sharpsville Aves., storm sewers in South Dock St. and Highland Ave. $55,000. L. E. Burnside, city engr.

Va., Norfolk—Appropriated $25,000-$30,000 to pave portions of Manteo and Fanquier Sts. also drain part of 34th St. Work will probably be done by day labor. C. E. Ashburner, city mgr.

Va., Petersburg—Pembroke Land Corp. will develop residential section at outskirts of here, incl. streets, walks and sewers $50,000. B. C. Syms, pres. Engineer not selected.

Va., Portsmouth—Norfolk Co. plans to issue $110,000 bonds for concrete road in Great Bridge Dist. R. B. Preston, New Kirn Bldg., co. engr.

Va., Princess-Anne—Princess Anne Co. plans 4 mi. concrete road from Kempsville to Salem Church. J. C. Wood, chn. bd. supervs.

W. Va., Moundsville—Rejected bids opened May 22, paving Jefferson and Morton Aves. Will readvertise. Noted May 18.

North Carolina—State Hy. Dept., Raleigh, rejected bids opened May 25, rein.-con. paving (heavily reinforced) 2.71 mi. State Project 110, Camden Co. $155,000. Work will probably be done by day labor. Noted June 8.

North Carolina,—State Hy. Dept. Raleigh, rejected bids opened May 25, grading, clearing and waterbound macadam paving 15.2 mi. State Project 888, Yancey Co. $209,600. Will readvertise. Noted June 8.

N. C., Charlotte—Mecklenburg Co. plans to construct 12 mi. Lawyers Rd. from west of Allen to Cabarrus Co. line, some type of asphalt on 5 in. concrete. $390,000. R. E. Young, clk.

N. C., Greensboro—Soon takes bids concrete paving portions of Whitington, Percy, North Spring and Douglass Sts., 5 mi. long. P. C. Painter, city mgr.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids opened May 31, grading, bridging and paving 4.268 mi. Sect. "G" Washington-London Rd., Fayette Co. Noted June 8.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids that were to be opened June 9, grading, bridging and paving roads in following counties:

Clark Co., Sect. "L-1" Springfield—Washington Rd., 1.65 mi.

Clark Co., Sect. "O" Springfield-Washington C. H. Rd., 1.857 mi., bituminous macadam, rein.-con. or bituminous concrete.

Darke Co., Sect. "E" Dayton-Greenville Rd., 4.491 mi., brick, state to furnish brick, rein.-con. or bituminous concrete.

Morgan Co., Sect. "C" McConnellsville-Zanesville Rd., 1.8 mi., rein.-con.

Stark Co., Sect. "D-2" and "E" Alliance-Minerva Rd., 3.96 mi., monolithic brick, state to furnish monolithic brick or bituminous concrete. Noted June 1.

O., Akron—E. A. Ziesloft, dir. Pub. Serv., soon takes bids grading and laying walks, etc., 8,200 ft. Stadelman, Bye, Reckham, Arrins and Greenwood Sts., granite and wood block, $45,000; grading, paving and laying walks 2,450 ft. Cole Ave. from High to Grant Sts., 8,445 sq.yd. vitr. brick, granite block or asphalt on concrete, 3,930 lin.ft. curbing, 28,000 sq.yd. sidewalk, 8,000 cu.yd. earth excav., $60,000; 5,255 ft. Roslyn Ave., 24 ft. pavement, vitr. brick, granite block, asphalt or concrete. E. A. Kemmler, Delaware Bldg., engr.

O., Akron—E. A. Zeisloft, dir. Pub. Serv., takes bids in June or July, resurfacing, grading and paving 3,909 ft. Eastern Alley, Perwood Dr., Barwell, Kling and Fultz Sts., vitr. brick, asphalt or concrete. $36,500. E. A. Kemnner, Delaware Bldg., engr.

O., Akron—S. Porter, clk. Summit Co., takes bids in July or August grading and paving 1.66 mi. Brittain-Massillon Rd., Sect. D, 16,000 cu,yd. earth excav., 17,000 sq.yd. vitr. brick, asphalt or bituminous concrete. $74,000. J. Weaver, Court House, engr.

BRIDGE ANCHORAGES—PHILADELPHIA, PA., AND CAMDEN, N. J.

Bids were opened by Delaware River Bridge Joint Comn., Widener Bldg., Phila., May 31, for constructing first section of Philadelphia and Camden anchorages for bridge over Delaware River connecting Philadelphia and Camden, Contrs. Nos. 4 and 5, (A) Keystone State Constr. Co., 210 South 13th St., Phila., and Holbrook Cabot & Rollins Corp., 6 Beacon St., Boston, Forms A and B, (awarded contract for Form B); (B) F. Snare Corp., 8 West 40th St., New York City, (Form B); Arundel Corp., 2 Pratt St., Baltimore, and Arthur McMullen Co., 50 Church St., New York City, (Form B). The unit bids of the lowest 3 bidders mentioned above were as follows:

Contract No. 4

	A		B	C
28,500 cu.yd. caisson foundations	$18.50	$17.70	$19.60	$18.00
8,000 cu.yd. excavation, above elev.—5.0	5.00	5.00	2.50	2.00
12,800 cu.yd. class "A" concrete, above elev.—5.0	8.00	7.25	8.50	9.04
16,830 cu.yd. class "B" concrete above elev.—5.0	7.50	6.75	8.00	8.52
1,000 bbls. additional cement	2.00	2.00	3.00	3.00
2,322,000 lbs. anchorage steelwork	.05	.0475	.048	.06
239,000 lbs. reinforcing steel, above elev.—5.0	.04	.035	.038	.04
Maintenance and protection of adjacent streets, structures and buildings (lump sum)	5,000.00	5,000.00	12,750.00	25,000.00
Extended totals	$928,535	$876,512	$958,328	$964,984

Contract No. 5

	A		B	C
47,000 cu.yd. caisson foundations	$16.50	$15.80	$18.15	$18.75
1,150 cu.yd. excavation, above elev.—3.5	5.00	5.00	2.50	3.00
12,870 cu.yd. class "A" concrete above elev.—3.5	8.00	7.25	8.50	9.04
17,060 cu.yd. class "B" concrete above elev.—3.5	7.50	6.75	8.00	8.52
1,000 bbl. additional cement	2.00	2.00	3.00	3.00
2,322,000 lbs. anchorage steelwork	.05	.0475	.048	.06
233,000 lbs. reinforcing steel, above elev.—3.5	.04	.035	.038	.04
Maintenance and protection of adjacent surfaces, structures and buildings (lump sum)	500.00	500.00	7,000.00	5,000.00
414 lin.ft. bulkhead wall	60.00	60.00	40.00	60.00
Extended totals	$1,164,920	$1,102,603	$1,248,670	$1,327,876
Extended grand totals Form B		$1,979,115	$2,206,998	$2,292,860

O., Columbus—Franklin Co. plans grading and paving 10.3 mi. Alkire Rd., in Prairie, Franklin, Jackson and Pleasant Twps., waterbound macadam. $270,841. C. C. Lattimer, Court House, engr.

O., Dayton—Plans concrete curbing, guttering and brick paving Irwin St. from 3rd to Springfield Sts., $24,977, Five Oaks Ave. from Forest to Old Orchard Sts., $19,586; grading and laying sewers in Ernst Ave. from Newport to Riverside Aves., $9,807. Work involves 12,000 sq.yd. vitr. brick, 3,000 lin.ft. cement curbing and 3,000 cu.yd. earth excav. I. E. Houk, city engr.

O., Rocky River—Plans paving Beach Cliff Blvd., Colver, Northview, Argyle Oval, Arundal, Oak and Kensington Rds., vitr. brick. $100,000. E. H. Arnold, Town Hall, engr.

Mich., Detroit—Having plans prepared paving with 3 and 3½ in. sheet asphalt on 8 in. concrete, Lawndale Ave., $68,600, C St., $4,000, Rosedale Court, $16,900, Lyman Pl., $9,320, Sharon Ave., $11,350, Davison Ave., $41,710, Jos. Campau Ave., $50,650, also 4 alleys with one course concrete, totaling $17,015. J. W. Reid, city engr.

Mich., Menominee—E. R. Norcross, city clk., soon takes bids one course concrete pavement on various streets. $65,000. T. R. Hasley, city engr.

Ia., Cresco—Rejected bids opened May 24, coating 32,000 sq.yd. concrete paving with ⅜ in. tarvia. Noted May 18.

Kan., Elgin—Paving various streets incl. 22,674 sq.yd. vitr. fibre brick on 5 in. concrete base, 10,701 lin.ft. curbing, 9,317 lin.ft. gutter, 4,652 cu.yd. earth and 96 cu.yd. rock excav., to Cook & Stucker, Ottawa, $94,884. Engrs. est. $95,000.

Kan., El Dorado—Butler Co. making plans surfacing 6.5 mi. Federal Aid Project 124, from Augusta to Gordon, 18 ft., gravel. $40,000. J. H. Austin, co. engr.

Kan., Ft. Scott—Bourbon Co. making plans paving 1 mi. Federal Aid Project 117, 18 ft., bituminous macadam. B. Boyle, co. engr.

Kan., Iola—Allen Co. plan spaving 17.5 mi. Federal Aid Projects 125, 127 and 128, incl. 9 mi. concrete from here to Fort Scott, 7.5 mi. various types from here to Humbolt and 1 mi. concrete from here to Fort Scott. A. R. Stroup, co. engr.

Kan., Oswego—Labette Co. plans paving 24 mi. Federal Aid Project 126, from Chetona to Coffesville, 18 ft., gravel or bituminous macadam. W. J. King, co. engr.

Neb., Lincoln—Plans paving with asphaltic concrete and curbing 9 blocks 35th St. from A St. to tracks of Missouri Pacific R.R., Dist. 438. G. W. Bates, city engr.

N. D., Devils Lake—Ramsey Co. plans grading 13 mi. highway from Starkweather toward Edmore. $25,000. J. A. Kramer, co. aud.

Missouri—State Hy. Dept., Jefferson City, plans 1.193 mi. from California northwardly, State Aid Project 20.175, Moniteau Co., 6,222 cu.yd. earth and 1,500 cu.yd. rock excav., 55.4 cu.yd. concrete masonry, etc.; 3.955 mi. road west and east of Osborn, State Aid Project 20.158, De Kalb Co., 32,308 cu.yd. earth excav., 8,733 cu.yd. borrow, 147.4 cu.yd. concrete masonry, etc.; 0.291 mi. road from Windsor southwestwardly, Federal Aid Project 133 B, Henry Co., 7,644 cu.yd. borrow, 13.9 cu.yd. concrete masonry, etc.; 6.357 mi. road from Unionville eastwardly, State Aid Project 20.167, Putnam Co., 171.1 cu.yd. concrete masonry, etc.; 4.946 mi. road from Dudley east and west, Federal Aid Project 178 A, Stoddard Co., 11,844 cu.yd. earth excav., 23,605 cu.yd. borrow, 146 cu.yd. concrete masonry, 34,793 sq.yd. gravel surfacing, etc.; 5.576 mi. road from Delta southwestwardly, State Aid Project 20.165, Cape Girardeau Co., 8,953 cu.yd. earth excav., 16,280 cu.yd. borrow, 119.5 cu.yd. concrete masonry, etc.; 7.396 mi. road from Cassville, northwest and southwest, Federal Aid Project 124, Barry Co., 4,889 cu.yd. borrow, 520.1 cu.yd. concrete masonry, 51,802 sq.yd. gravel surfacing, etc. B. H. Piepmeier, state highway engr.

Tex., Clarksville—Red River Co. making plans grading and gravel surfacing 3.5 mi. State Highway 5. $25,000. Gravel furnished by county. J. B. Rieman, Clarksville, engr.

Tex., Georgetown—Takes bids about July 27, paving 7 mi. various streets, bids on concrete, gravel and rock base, also several types of asphalt top. $200,000. W. N. Harris, city engr.

Tex., Marshall—Harrison Co., making plans, grading and gravel surfacing 14.29 mi. State Highway 8, 91.290 cu.yd. borrow, 25,493 cu. yd. roadway, 1,971 cu. yd. concrete, 151,752 lb. reinforcing and 99,500 lb. structural steel, 19,157 cu. yd. gravel. $129,905. G. A. McClellan, co. engineer.

Tex., New Boston—Bowie Co. making plans, grading, gravel surfacing and bridging 16.86 mi. State Highway; 1 from Sulphur Springs through Road Dist. 2, 100,000 cu. yd. borrow, 55,000 cu. yd. roadway, 1,700 sq. yd. bituminous macadam, 370 cu. yd. concrete, 40,000 lb. reinforcing, etc. $160,550. J. V. Curnutte, Simms, engr.

Tex., Port Arthur—Plans paving 113,000 sq. yd. various streets on 6 in. concrete base with 2-in. btuminous topping or 8 in. plain concrete pavement. To exceed $233,000. Nagle, Rollins & Witt, Eng. Co., Port Arthur, engr.

Tex., Richmond—Fort Bend Co. voted $500,000 bonds for highway improvements in Road Dist. 1. Nagle-Witt-Rollins Eng. Co., Wharton, co. engr.

Tex., Seguin—Guadalupe Co. plans grading and gravel surfacing 3.4 mi. State Highway 3 between here and San Antonio, 13,194 cu. yd. borrow, 10,538 cu. yd. roadway, 660 cu. yd. concrete, 9,160 cu. yd. gravel surfacing, 86,240 lb, reinforcing. $36,700. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Okla., Morris—Soon takes bids paving 12 streets south of Frisco, gravel with asphalt top. $126,000. R. Ward, mayor.

Okla., Stigler—Plans 12,000 sq.yd. paving. $55,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Cal., Fresno—Fresno Co. rejected bids opened June 5, paving 5 mi. Shaw Ave. C. P. Jensen, Cory Bldg., co. surv. Noted May 25.

Cal., San Bernardino—Bd. Supervs. San Bernardino Co. take bids late in June or early in July, concrete curbing, cement and concrete culverts, 4 in. olled macadam paving and constructing concrete wall on 17.-

Streets and Roads (Continued)

750 ft. Hellman Ave., Rd. Dist. 17. H. L. Allison, co. clk.

Cal., San Rafael—Marin Co. rejected bids received grading and surfacing Bolinas Co. Rd., Dist. 3. Noted June 8.

Cal., Stockton—Plans improving streets in Searchlight Addition, 21,667 cu.yd. cut, 750 cu.yd. fill, 19,305 lin.ft. concrete curb and gutter, 98,361 sq.ft. concrete walks, 355,072 sq.ft. 2 in. asphaltic macadam on 4 in. gravel. W. B. Hogan, city engr.

Cal., Woodland—Yolo Co. rejected bids opened May 29, improving Prefix 8, Sect. A. A. Proctor, co. engr.

Que., Montreal—Soon takes bids for cement sidewalks on Clark St. from Kelly to Boiseau Sts., $9,112. Clark St. from Kelly to Dick Sts., $5,765. Lasalle Ave., Dandurand, Delormier, Mentana and Charlemagne Sts., totaling $10,390. E. Blanchard, road supt.

Ont., Leamington—Preparing plans paving John and Wellington Sts., concrete. $28,000. Prices wanted on all materials. R. M. Selkirk, city engr.

Ont., Merriton—Plans paving Main St. from Church Corner to Thorold town line. $50,000.

Ont., St. Thomas—See "Railways."

Hawaii, Honolulu—City and Honolulu Co. plans improving Pali Rd. $150,000, reclaiming 80 acres of reef between Kewalo Basin and Waikiki Canal, also building new concrete and asphalt road to connect boulevards, $500,000. F. Ohrt, city engr. I. J. Hopu, city deputy and co. clk.

BIDS DESIRED

R. I., Central Falls—June 22, by Bd. Street, Water and Sewer Comrs., City Hall, paving Lonsdale Ave. from Rand to Dexter Sts.; adv. this issue.

New York—June 30, by H. S. Sisson, comr., State Hy. Dept., Albany, improving highways Allegany, Chautauqua, Franklin, Livingston, Onondaga, St. Lawrence, Schuyler, Suffolk and Westchester Counties. J. C. Finch, secy.; adv. this issue.

N. Y., Fredonia—June 26, by Bd. Trustees, A. R. Moore, village clk., paving Risley St., Terrace and Forest Places, 18 ft., brick and asbestos filling, $40,000. Village Eng. Dept., engrs. Noted June 1.

N. Y., Massena—June 26, by President and Village Bd. Trustees, at office of H. A. Little, village clk., paving Bridges Ave., Andrews, Water and North Main Sts. W. E. Timmerman, village engr.; adv. this issue. Noted May 18.

N. Y., New York—June 20, by J. Miller, pres. Manhattan Poro, Municipal Bldg., repaving Amsterdam Ave. (curb to rail) from 155th St. to point about 100 ft. north of 162nd St., 114th St. from 7th to 8th Aves., West 139th St. from 7th to Edgecomb Aves., West 147th St. from Amsterdam Ave. to Bway., all sheet asphalt.

N. Y., New York—June 22, by W. J. Flynn, acting pres. Bronx Boro., grading, setting curb, laying sidewalks and crosswalks, etc. on Mt. Eden Ave. from Walton to Selwyn Aves., Elliott Pl. from Jerome Ave. to Grand Blvd.; repaving Jerome Ave. from 162nd St. to Cromwell Ave., granite block; sewers in Middletown Rd. between Westchester and Edison Aves.

N. Y., Rochester—June 21, by Bd. Contract & Supply, resurfacing Arvine Heights, paving Anson Pl. and Beverly St. $28,000. C. A. Poole, city engr.

N. Y., Victor—June 24, by Bd. Trustees, improving Maple Ave. Hopkins & Field, 349 Cutler Bldg., Rochester, engrs.; adv. this issue.

N. J., Belvidere—June 21, by Warren Co. at Court House, 21,560 sq.yd. rein.-con. pavement on State Highway Route 9, Sect. 9, from Phillipsburg to Still Valley. H. W. Vetter, co. engr.

N. J., Freehold—June 28, by Bd. Freeholders Monmouth Co., reconstructing 1.73 mi. Long Branch-Oceanport Rd., 70, Sect. 1, rein.-con. G. K. Allen, Jr., 60 Broad St., Redbank, co. engr.; adv. this issue.

N. J., Long Branch—June 27, by Bd. City Comrs. paving Liberty St. from Bway. to Atlantic Ave., asphalt on concrete. J. W. Seaman, city engr.; adv. this issue.

N. J., Ridgefield Park—July 5, by Bd. Village Comrs., 234 Main St., improving Pershing Court and Chestnut St. M. D. Starker, village clk.; adv. this issue.

Pa., Erie—June 20, paving 17 streets to repair damage done by Mill Creek Flood Control. $38,000. F. G. Lynch, city engr. Noted June 1.

Pa., Indiana—June 30, 28,000 sq. yd. street paving, 9,000 lin. ft. 6 and 8 in. sanitary sewers. T. Pealer, boro. engr. adv. this issue.

Pa., Phila.—June 19, by F. H. Caven, dir. Pub. Wks., paving Banes St. from Pearson to Fulmer Sts., 20,000 sq.yd. bituminous macadam, $31,000, Delaware Ave. from Manderson St. to Columbia Ave., 2,000 sq.yd. granite block, 15,000 cu.yd. excav., $50,000, Mitchell St. from Parker St. to Cinnaminson Lane, 16,000 sq.yd. bituminous macadam, $25,000, Ontario St. from Balfour to Bath Sts., 2,400 sq.yd. bituminous concrete, $12,000, 22nd St. from Wood to Locust Sts., 13,474 sq.yd. redressed granite block, $35,000, Tower, Water and Woodlawn Sts., $26,500, Hope, Louden and Opal Sts., 708 sq.yd. vitr. brick, 3,604 sq.yd. asphalt, $25,000, Godfrey Ave., Abington, B, Bonsall Sts., 1,076 sq.yd. vitr. brick, 8,062 sq.yd. asphalt, $36,000, Stillman, Bowner and 65th Sts., $15,000. F. Dunlap, City Hall, engr.

Pa., Phila.—June 19, by F. H. Caven, dir. Pub. Wks., grading, paving, curbing and building concrete wall, etc., at Bensalem Ave. Bridge. $25,000. F. C. Dunlap, City Hall, engr.

Maryland—June 20, by State Roads Com. Baltimore, building state highways in Carroll Co., Contr. CL-28 through Hampstead, Talbot Co., Contr. T-12, from St. Michaels to Oak Creek; Caroline Co., Contr. CO-28, north of Denton; Worcester Co., Contr. WO-17, from Pocomoke toward Stockton; St. Marys Co., Contr. SM-19 from Helen to Chaplice, C. H. Wilson, secy.; adv. this issue.

D. C., Wash.—June 26, by Dist. Comrs., 509 Dist. Bldg., asphaltic surfacing 6th St. S. W. from School to Water Sts.; adv. this issue.

D. C., Wash.—June 26, by Dist. Comrs., 509 Dist. Bldg., for asphaltic surface on Pennsylvania Ave.; adv. this issue.

W. Va., Charleston—July 1, by Comrs. Kanawha Co., grading 2.63 mi. East Bank-West Rd., Sect. 6, $75,000; 2.4 mi. Pratt-West Rd., Sect. 5, $75,000; 2.72 mi. Montgomery-West Rd., Sect. 4, $75,000. P. J. Walsh, Charleston, engr.

North Carolina—June 28, by State Hy. Dept., Raleigh, improving 13.68 mi. State Project 200, Carteret Co., 54 acres clearing, 10,000 cu.yd. drainage ditch excav., 29,300 cu.yd. common excav., 65,600 cu.yd. borrow, 167,000 sta.yd. overhaul $44,000; 0.14 mi. State Project 264, Craven and Pamlico Counties, 5,310 cu.yd. borrow, 940 sq.yd. concrete or asphaltic paving, 540 cu.yd. concrete, 60,520 lbs. reinforcing, 4,560 ft. untreated piles, etc., $25,000; 6.92 mi. State Project 402, Chatham Co., 26 acres clearing, 31,200 cu.yd. excav., 2,010 ft. 15-24 in. concrete pipe, 16,250 cu.yd. topsoil, 15,200 lb. reinforcing, etc., $27,000; 9.76 mi. State Project 661, Richmond Co., 55 acres clearing, 61,600 cu.yd. excav., 1,530 ft. 15-24 in. concrete pipe, 25,750 cu.yd. topsoil, 19,650 lb. reinforcing, etc., $38,900. C. M. Upham, state highway engr. Adv. this issue.

Florida—June 27, by State Hy. Dept., Tallahassee, surfacing 7.87 mi. section of Rd. 5, between Bullards Creek and Hillsborough Co. line, Federal Aid Project 17, Manatee Co., alternate bids on bituminous macadam, 3 in. depth compacted, sheet asphalt with binder course and bituminous concrete with binder course, both 3 in. in depth; 10 mi. section of Rd. 4, from Duval Co. line north, Federal Aid Project 32, Nassau Co., alternate bids on surface treated gravel 8 in. in depth, crushed stone base course, 8 in. in depth compacted, cement concrete base course, average 5 in. in depth, penetration macadam, 2½ in. in depth compacted, sheet asphalt with binder course, and bituminous concrete with binder course, both 3 in. in depth. W. F. Cocke, state highway engr.

Fla., Eustis—July 10, 85,000 sq.yd. paving, etc. H. S. Jaudon Eng. Co., Elberton, Ga. engrs.; adv. this issue.

Ky., Central City—June 23, constructing and reconstructing Broad, West Second, Center, Front, Locust and 1st Sts. L. Jackson, mayor; adv. this issue.

Ohio—June 23, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Ashland Co., Sect. "F" Mansfield-Wooster Rd., 3.463 mi., brick, $150,498; state to furnish brick, $113,438.

Columbiana Co., Sect. "F-1" Youngstown-Lisbon Rd., 2.324 mi., brick, $98,919; bituminous macadam, waterbound macadam base, $78,930.

Franklin Co., Sect. "B" Columbus-Millersburg Rd., 5.525 mi., bituminous macadam, asphalt or tar, $180,010; bituminous concrete, $194,484; bituminous macadam, either asphalt or tar, sandstone base, $151,-557.

Hamilton Co., Sect. "B" Cincinnati-Zanesville Rd., 5.221 mi., plain concrete, $270,375.

Huron Co., Sect. "M" Sandusky-Columbus Rd., 1.717 mi., Kentucky rock asphalt, $41,765; rein.-con., $40,010; brick, $37,898.

Huron Co., Sect. "E" Barberton-Greenwich Rd., 4.124 mi., rein.-con., $99,70[illegible]

Huron Co., Sect. "Greenwich" Barberton-Greenwich Rd., 0.1619 mi., rein.-con., $3,961.

Huron Co., Sect. "B" Norwalk-Mansfield Rd., 2.504 mi., rein.-con., $58,668.

Jefferson Co., Sect. "Brilliant South" Ohio River Rd., 0.902 mi., brick, $41,452; state to furnish brick, $31,262; rein.-con., $34,485.

Jefferson Co., Sect. "Brilliant South" Ohio River Rd., 0.92 mi., Proposal No. 2, brick, including brick, $41,452; state to furnish brick, $11,766; rein.-con., $13,674.

Jefferson Co., Sect. "P" Ohio River Rd., 0.776 mi., brick, $94,439; state to furnish brick, $73,914; rein.-con., $74,140.

Morgan Co., Sect. "I" McConnelsville-New Lexington Rd., 2.061 mi., waterbound macadam, $62,976; bituminous macadam, asphalt or tar, $64,652.

Morrow Co., Sect. "J" Marion-Galion Rd., 2.235 mi., bituminous macadam, asphalt or tar, limestone, macadam base, $72,495; bituminous macadam, sandstone base, $65,060.

Noble Co., Sect. "O" Cambridge-Caldwell Rd., 4.717 mi., rein.-con., $139,676; including brick, $172,505; state to furnish brick, $123,179.

Pickaway Co., Sect. "X" Cincinnati-Zanesville Rd., 4.735 mi., bituminous macadam, asphalt or tar, $142,019; brick, $173,306; state to furnish brick, $124,583; sheet asphalt, $173,446; rein.-con., $157,070.

Putnam Co., Sect. "N" Lima-Ottawa Rd., 2.713 mi., Kentucky rock asphalt, $72,019; rein.-con., $72,920.

Putnam Co., Sect. "O" Lima-Ottawa Rd., 0.58 mi., Kentucky rock asphalt, $14,824; rein.-con., $15,230.

Putnam Co., Sect. "Columbus Grove" Lima-Ottawa Rd., 1.21 mi., Kentucky rock asphalt, $34,212; rein.-con., $33,213.

Stark Co., Sect. "D-2" Alliance-Minerva Rd., 3.96 mi., brick, $167,306; state to furnish brick, $125,991; bituminous concrete, $164,392.

Tuscarawas Co., Sect. "New Comerstown" Uhrichsville-New Comerstown Rd., 0.63 mi., semi-monolithic brick, $35,735; bituminous concrete, $30,855; Kentucky rock asphalt, $30,014.

Madison Co., Sect. "C" Plain City-Dublin Rd., bridge and culvert, $6,292. L. C. Herrick, dir. highways.

O., Akron—June 21, by S. Porter clk. Bd. Comrs. Summit Co., grading and paving 3.91 mi. Sects. A and B, Kent-Darrowville Rd. 119, macadam. $102,428. Former bids rejected. J. Weaver, Akron, engr. Noted June 8.

O., Akron—June 21, by E. A. Zeisloft, dir. Pub. Serv., grading, paving and laying walks 1,800 ft. Bellows St., 26 ft., vitr. brick, granite block or asphalt, $42,000; grading walks Barwell and Kling Sts., paving Fultz St. and Eastern Alley, 3,800 ft. long, 1,825 sq.yd. vitr. brick or wood block on cement, 1,175 cu.yd. concrete, 32,000 sq.ft. sidewalk, 13,300 cu.yd. earth excav., 1,360 lin.ft. stone curbing, $27,900. E. A. Kemmler, Delaware Bldg., engr.

Indiana—June 23, by State Hy. Dept., Indianapolis, gravel surfacing 7.2 mi. State Rd. 38, Sect. A, $50,000; 5 mi. State Rd. 42, Sect. C., $40,000, both penetration top; 3.1 mi. State Rd. 4, Sect. W, $28,000.

Indiana—June 23, by State Hy. Comm., Indianapolis, gravel surfacing 5.1 mi. State Rd. 22, Sect. G., Marion Co., $42,500; 3.73 mi. State Rd. 13, Sect. K., Allen Co., $27,-500; 3.1 mi. State Rd. 4, Sect. X, Dearborn Co., $27,000; 3.1 mi. State Rd. 32, Sect. A, Monroe Co., $29,500; 3 mi. State Rd. 27, Sect. E, Elkhart Co., $25,500; 3.13 mi. State Rd. 44, Sect. B., Laporte Co., $26,500; 5.484 mi. State Rd. 15, Sect. 9, Laporte Co., $47,000; 3.477 mi. State Rd. 2, Sect. D, Laporte Co., $29,000.

Ind., Indianapolis—June 30, by Comrs., Marion Co., paving 2.55 mi. Lloyd Durbin Rd., 26,928 sq.yd. concrete on concrete. $86,252.

Michigan—June 21, by State Hy. Dept., Lansing, grading and surfacing 6.242 mi. Federal Aid Project 44, Sects. C and D, Lenawee Co., 23,275 cu.yd. earth excav., 67,506 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Michigan—June 29, by State Hy. Dept., Lansing, grading and surfacing Federal Aid Project 71, 4.146 mi. Sect. A and 2.642 mi. Sect. B, Charlevoix Co., 49,809 cu.yd. excav., 27,903 sq.yd. asphalt, concrete, or bituminous concrete. L. H. Belknap, ch. engr.

Mich., Dearborn—June 24, at office H. B. Knauff, village clk., concrete pavements and curbs on Garrison and Monroe Aves., Park, Maple and Nona Sts.; adv. this issue.

Wisconsin—June 20, by State Hy. Comm., at div. office 8, First Natl. Bank Bldg., Superior, surfacing 4.55 mi. Spooner-Rice Lake Rd., Federal Aid Project 90, Washburn Co., 7,786 cu.yd. gravel; 5.4 mi. New

Streets and Roads (Continued)

Auburn-Chetek Rd., Federal Aid Project 186, Barron Co., 9,317 cu.yd. gravel. A. R. Hirst, Madison, highway engr.

Wisconsin—June 20, by State Hy. Comn., at div. office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, 5 mi. New Lisbon-Mauston Rd., Federal Aid Project 280, Juneau Co., 31 acres clearing and grubbing, 18,081 cu.yd. earth excav., 4,066 cu.yd. clay, 1,000 cu.yd. sand and 5,850 cu.yd. gravel surfacing; 3.83 mi. Coloma-Wautoma Rd. Federal Aid Project 283, Waushara Co., 2.9 acres clearing and grubbing, 22,561 cu.yd. earth, excav. 104 cu.yd. borrow, 10,531 cu.yd. gravel surfacing; 3.08 mi. Arkdale-Wisconsin Rapids Rd., Federal Aid Project 250, Adams Co., 3.37 acres clearing, 1.68 acres grubbing, 16,644 cu.yd. earth, excav. 111 cu.yd. borrow, 4,824 cu. yd. surfacing material. A. R. Hirst, Madison, highway engr.

Wis., Milwaukee—June 19, at office Dept. Pub. Wks., grade separation 1st Ave. from center line of Cleveland Ave. to point 225 ft. south of center line of Dakota St., and west on Dakota St. to point about 182 ft. west of west line of 1st Ave., (except that part of 1st Ave. within the right of way line of Chicago and Northwestern Ry., which is not included) incl. 39,888 cu.yd. excav. above sub-grade of pavement, 4,200 cu.yd. excav. below sub-grade of pavement, 1,618 cu.yd. rein.-con. retaining walls, 3,728 cu.yd. backfill around retaining walls and above rein.-con. arch, 1,554 lin.ft. removing and relaying 16 in. c.i. water main, 325 lin.ft. removing and relaying 4, 6 and 8 in. c.i. water main, 1,100 cu.yd. rein-con. arch above 84 in. sewer, 5,423 sq.yd. sandstone block pavement on 8 in. concrete, 2,666 lin.ft. combination curb and gutter, 14,520 sq.ft. one course concrete sidewalk, 1,075 lin.ft. concrete gutter west of walk, 240 lin.ft. rein.-con. steps. R. E. Stoelting, dir. Pub. Wks.

Wis., Racine—June 24, by Bd. Pub. Wks., paving and resurfacing, 14,000 sq.yd. Asylum Ave., rein.-con. vitr. brick or sheet asphalt; 1,000 sq.yd. 5th St., resurfacing with brick; 5,150 sq.yd. Yont St., brick pavement on concrete; 6,200 sq.yd. Albert St., brick pavement on concrete; 7,500 sq. yd. Carlisle Ave., sheet asphalt; 8,091 sq.yd. 12th St., rein.-con., brick or sheet asphalt. J. W. Beaugrand, City Hall, engr.

Minn., Mahnomen—June 29, by F. E. Johnson, Aud. Mahnomen Co., Job 2201, State Rd. 2, 28,944 cu.yd. excav., 29,000 cu.yd. overhaul, 352 lin.ft. 18 and 24 in. metal culverts; Job 2101, State Rd. 2, offtake ditch 134 cu.yd., 14,266 cu.yd. excav., 20,656 sta.yds. overhaul, 136 lin.ft. 18 and 24 in. metal culverts; Job 2202, State Rd. 1, 32,177 cu.yd. excav., 45,184 sta.yd. overhaul, 278 lin.ft. 24 in. metal culvert. $25,000.

Minn., Wells—June 21, by A. B. Lord, city clk., paving about 22,000 sq.yd. various streets. Bids on asphaltic concrete, classes A, B and C, bituminous and rein.-con. $45,000. L. P. Wolff, 1001 Guardian Life Bldg., St. Paul, engr.

Kan., Iola—June 27, by Clerk, Allen Co., surfacing 4.527 mi. Sects. A and B, Federal Aid Project 19, 15 ft., bituminous material, single or double surface. A. R. Stroup, co. engr.

Kan., Troy—July 7, by Doniphan Co., grading, bridging and paving 7.844 mi. Federal Aid Projects 116 and 87, incl. 5 mi. concrete or bituminous macadam east of here. H. L. Parker, Troy, engr.

S. D., Sioux Falls—June 26, paving 17 blocks on 26th St. from Cliff to Summit Aves., 22,212 sq.yd. cement, bituminous concrete, and sheet asphalt. $45,000. W. C. Leyse, city. aud. Noted May 18.

Tex., Groveton—June 21, by F. J. Berry, judge, Trinity Co., grading, surfacing and bridging 16.3 mi. State Highway 19, Federal Aid Project 225, 87,024 cu.yd. borrow, 29,060 cu.yd. earth excav., 1,955 sq.yd. concrete pavement, 790 cu.yd. 1:2:4 concrete, 35,560 cu.yd. gravel surfacing, 3,332 lin.ft. creosoted piling, 69,068 lb. reinforcing., etc. $205,545. W. J. Kelly, co. engr.

Tex., Marshall—June 20, by W. H. Strength, judge Harrison Co., grading, gravel surfacing and bridging 10.79 mi. State Highway 8, from here to Marion Co. line, 35 acres clearing and grubbing, 69,708 cu.yd. borrow, 31,480 cu.yd. earth excav., 404.8 cu.yd. concrete, 5,372 lin.ft. creosoted timber piling, etc. $82,863; 14.29 mi. State Highway 8 from here to Panola Co. line, $129,905. Gravel furnished by county. Noted June 15.

Tex., Richmond—June 26, by C. D. Myers, judge Ft. Bend Co. surfacing and 1 in. bituminous topping 13.01 mi. State Highway 36, from Rosenberg to Austin Co. line, 30,592 cu.yd. gravel surfacing, 4,303 cu.yd. crushed limestone, 103,277 gal. asphaltic oil. $156,004. Nagle-Witt-Rollins Eng. Co., Wharton, co. engrs.

DAM—COLUMBUS, OHIO

Bids were opened by W. H. Duffy, dir. Pub. Serv., May 25, for constructing O'Shaughnessy Dam and appurtenant works, Contr. No. 10, (A) Engineer's Estimate; (B) Thompson-Starrett Co., 61 Wall St., New York City, (awarded contract); (C) Hickey Bros., Columbus; (D) J. F. Casey Co., Union Ave., Pittsburgh; (E) Dravo Contg. Co., Pittsburgh; Lake Erie Constr. Co., Cleveland, $1,243,040; E. H. Latham Co., Columbus, $1,325,733; H. P. Converse & Co., Boston, $1,350,285. The unit bids of the Engineer's Estimate, lowest three bidders and highest bidder were as follows:

	A	B	C	D	E
23,000 cu.yd. earth excavation	$1 25	$1 90	$1 25	$1 35	$1 00
65,000 cu. yd. rock excavation	3 25	1 90	1 90	2 00	3 50
13,700 cu. yd. excavation below El. 782	4 00	1 90	4 00	3 20	6 00
1,350 cu. yd rock excavation in cut-off trench	7 00	12 00	8 00	8 00	12 00
10,800 cu. yd. embankment for earth dikes	1 00	1 00	0 75	0 42	1 50
20,500 cu. yd. embankment for highways	0 50	0 60	0 80	0 52	0 90
60,000 cu. yd. concrete, Class A (1-3-6 cyclopean)	9 50	6 85	8 00	9 00	8 00
17,500 cu. yd. concrete, Class C (1-2-4)	13 50	14 00	12 50	10 20	15 00
1,890 lin. ft. concrete guard rails	1 50	1 50	1 50	1 50	4 00
1,550 sq. yd. surfacing with granolithic finish	1 25	1 40	0 90	1 35	1 40
500,000 lb. steel reinforcement bars	0 045	0 05	0 04	0 04	0 04
90,000 lb. iron castings	0 08	0 09	0 08	0 08	0 06
Extended totals (52 items)	$1,376,700	$1,165,511	$1,195,846	$1,211,136	$1,434,955

*A table of the bids received on Apr. 20 for this same project appeared in the May 18 issue.

Okla., Grandfield—June 19, by G. Hoefer, city clk., improving 2nd St.; adv. this issue.

Cal., Tracy—June 22, paving 11th St. W. D. Harrington, city engr. Noted March 3.

Quebec—June 23, J. L. Perron, deputy minister, Dept. Rd., Parliament Bldgs., Quebec, 19.8 mi. oiled waterbound macadam on Royal Highway from Quebec to St. Anne de Beaupre. M. Neckar, c/o Dept. Rds., engr.

Quebec—June 27, by J. L. Perron, deputy minister, Dept. Rd., Parliament Bldgs., Quebec, 7 mi. oiled waterbound macadam road in St. Therese. M. Neckar, c/o Dept. Rds., engr.

Ont., Pembroke—June 22, by S. L. Biggs, town clk., new pavements on various streets, incl. 26,600 sq.yd. asphalt or Warrenite bitulithic, 3,000 sq.yd. bituminous penetration. $45,000. J. P. Howe, engr.

BIDS RECEIVED.

New Hampshire—State Hy. Dept., Concord, paving about 3 mi. Project 141, in Fitzwilliam, 5,402 cu.yd. earth and 633 cu.yd. rock excav., 9,056 cu.yd. borrow, 72,563 gal. bituminous material, 258 lin.ft. 14-18 in. c.i. pipe, from R. H. Newell Co., Uxbridge, Mass., $76,090, Lane Constr. Co., 37 Colony St., Meriden, Conn., $78,405, Portland Constr. Co. 21 Portland St., Portland, Me., $81,707; 1.5 mi. State Projects 140 and 146 in Boscawen, 15,354 sq.yd. asphalt, 2,226 sq.yd. bituminous concrete, 2,300 cu.yd. earth excav., 504 cu.yd. gravel base, 13,128 sq. yd. scarifying, from Colburn Constr. Co., Concord, $16,767, Winslow & Cummings, Nashua, $16,887, Adams & Ruxton Constr. Co., 33 Lyman St., Springfield, Mass., $20,046; 1¼ mi. Project 139, Franklin and Tilton, 20,038 sq.yd. asphalt, 135 cu.yd. concrete masonry, 314 cu.yd. earth and 93 cu.yd. rock excav., from Winslow & Cummings, Nashua, $17,393, Colburn Constr. Co., Concord, $20,367.

Massachusetts—State Hy. Dept., Boston, opened bids June 6, paving 18,950 ft. State Highway, Windsor and Dalton Counties, 18 ft., bituminous macadam, 26,065 cu.yd. earth and 1,870 cu.yd. rock excav., from Lane Constr. Co., 37 Colony St., Meriden, Conn., $161,958; Hassam Paving Co., Worcester, $187,422; Forgione & Romano, South Portland, Me., $200,466; 13,700 ft. State Highway, Lee Co., 18 ft., rein.-con., 7,850 sq.yd. concrete, 13,790 cu.yd. earth excav., from C. E. Horne, Milford, $143,139; Middlelsex Constr., Medford, $146,393; F. T. Ley Co., Springfield, $151,095.

N. Y., Brooklyn—Park Bd. at office Dept. Parks, Municipal Bldg., New York, opened bids June 8, improving East Lake Dr., Prospect Park between Lincoln Rd. and Ocean Ave. entrances, from Cranford Co., 52 9th St., $49,641; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $51,570; Uvalde Asphalt Paving Co., Bway, New York, $54,764. Noted June 1.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids June 7, paving (1) Bristol St., (2) East 8th St., grading, curbing and laying sidewalks on (3) Schenectady Ave., grading, curbing and flagging (4) Union St., (5) 80th St., etc., from Borough Asphalt Co., 1301 Metropolitan Ave., (1) $7,398, (2) $6,791; Cleveland Trinidad Paving Co., Flushing, (1) $7,485, (2) $6,932; Uvalde Asphalt Paving Co., 1 Bway., New York, (1) $7,546, (2) $6,904; F. Donovan Sons Trucking & Contg. Co., 614 Union St., (3) 6,606; Grimm Constr. Co., 170 McKinley St., (3) $7,404, (4) $3,465; F. Persicano, 513 Midwood St., (3) $8,725, (4) $4,444; T. B. Scott, (4) $3,180, (5) $3,867; G. M. Mandatto, 129 29th St., (5) $3,626; W. E. Kelley, (5) $3,738. Noted June 1.

N. Y., Dunkirk—Paving West Front St. between Brigham Rd. and Central Ave., from Baker & Bailey, Fredonia, brick on sand cushion, concrete curb and gutter, $26,078; brick on cement sand, concrete curb, $28,172; monolithic brick, concrete curb, $26,182, concrete with concrete curb, $25,415, one course concrete, concrete curb, $24,199, monolithic brick stone curb, $28,488, brick with stone curb, $28,374, concrete with stone curb, $29,131, brick on cement sand, stone curb, $30,677, one course concrete, stone curb, $27,793. Engrs. est. $30,000.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids June 7, repaving (1) 71st St., (2) West 120th St., (3) East 30th St., from Brusstar Constr. Co., Harlem River and 150th St., (1) $12,048, (2) $14,393; Cleveland Trinidad Paving Co., Flushing, (1) $12,452, (3) $9,190; W. J. Fitzgerald, 547 West 45th St., (1) $12,646, (3) $9,922; Asphalt Constr. Co., 2197 Madison Ave., (2) $14,884; C. D. Beckwith, Inc., 2875 Bway., (2) $16,234; Uvalde Asphalt Paving Co., 1 Bway., (3) $10,251. Noted June 1.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Municipal Bldg., opened bids June 7, paving Valentine Ave., etc., from Regan Towers Co., 124 West 121st St., $130,381; Burnside Contg. Co., 270 Burnside Ave., $132,213; Hastings Pavement Co., 25 Broad St., $135,587. Noted June 1.

N. Y., Penn Yann—Paving Liberty St., from Lane Constr. Co., 37 Colony St., Meriden, Conn., rein.-con., $26,623; G. H. Gallup, Syracuse, asphalt $27,399, asphaltic concrete $26,547; C. A. Kelley, Penn Yann, rein.-con. $20,736, sheet asphalt $27,853, asphaltic concrete $27,853. Corning brick $29,164, Bessemer brick $29,503, Metropolitan brick $30,295.

N. Y., St. George—M. J. Cahill, pres. Richmond Boro, Boro Hall, opened bids June 7, repaving roadway of Bay St. from Thompson St. to tracks of Staten Island Rapid Transit R.R., Richmond Terrace from Ferry St. to Sharp Ave. and Richmond Terrace from York St. to Sailors Snug Harbor Dock, from Brooklyn Manhattan Contg. Co., 26 Court St., Brooklyn, Alternate A, $270,378, Alternate B, $266,573; Sachs & Leedecke, Alternate A, $275,421, Alternate B, $278,116; J. Johnson Sons, 455 Bway., West New Brighton, Alternate A, $276,094, Alternate B, $274,699. Noted June 1.

N Y., Syracuse—Paving Renwick Ave. from Harrison to Raynor Sts., from F. J. Baker, University Bldg., $56,320; G. B. Dickison, Union Bldg., $57,222; J. H. Gallup, Union Bldg., $57,324.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing (1) 4.85 mi. Jackson Highway, from Tuscumbia south, grading and surfacing, (2) Jackson Highway, from Tennessee River to Sheffield to Tuscumbia, (a) plain concrete, (b) waterbound macadam base, (c) Puzzolan cement, (d) Portland cement, (e) sheet asphalt on concrete, (f) Kentucky rock asphalt on concrete, from J. W. Gwin, Hamilton Sta., Birmingham, (1) $74,382; Mitchell Bros., Oneonta, (1) $80,631, (2a) $92,537; Doullut Williams Co., 816 Howard Ave., New Orleans, La., (1) $84,801, (2a) $91,506, (2e) $120,775, (2f) $117,096; Sullivan, Long & Haggerty, Bessemer, (2a) $102,136, (2e) $107,509; Southern Rds. Co., Amer. Trust Bldg., Birmingham, (2b) $77,815, (2c) $88,789, (2d) $93,789; H. N. Bowdry, 3426 Norwood Bldg., Birmingham, (2e) $96,240; Jamison-Hallowell, 825 North Court St., Montgomery, (2b) $81,217, (2c) $92,545, (2d) $97,855. Noted May 18.

Streets and Roads (Continued)

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids June 9, grading, bridging and paving roads with (a) asphaltic macadam, oil, (b) asphaltic macadam, lake, (c) tar macadam, (d) willite bituminous concrete, (e) reln.-con., (f) brick, (g) state to furnish brick, (h) waterbound macadam, (i) bituminous concrete, (j) bitoslag (k) bitulithic, (l) plain concrete, (m) bituminous concrete, oil, (n) bituminous concrete, lake, (o) Kentucky rock asphalt, in following counties: Allen Co., Sect. "I" Lima-Wapakoneta Rd., 3.929 mi., from R. Stone Co., Lima, (a) $84,840 (c) $86,084 (d) $110,023, (f) $141,433, (g) $99,017; Acton Bros., Vaughnsville, (a) $91,194 (b) $91,094, (c) $91,094, (e) $107,209; F. F. Walton Co., Upper Sandusky, (a) $97,580; L. L. Clymer, Bluffton, (c) $100,164, (d) $123,553; Lima Willite Co., Lima, (d) $124,644; Radebaugh & Graham Co., Columbus, (e) $107,916, (f) $135,607; Lewis & Copeland, Lima, (e) $107,841; E. J. Heil, 410 South Jameson St., Lima, (f) $135,745. Belmont Co., Sect. "G" Barnesvill-Woodsfield Rd., 2.254 mi., from S. W. Wrightsel Co., Logan, (a) $76,402, (c) $75,942; E. J. Kane, 461 West Indianola Ave., Youngstown, (a) $78,243, (c) $78,243; Chalfont Constr. Co., Barnesville, (c) $74,605. Belmont Co., Sect. "G-1" Barnesville-Woodsfield Rd., 3.462 mi., from Tri-State Constr. Co., Youngstown, (a) $81,938, (c) $81,580; E. J. Kane, 461 West Indianola Ave., Youngstown, (a) $82,496, (c) $82,496; Wilson-Miller Co., Barnesville, (a) $83,943, (c) $83,228. Brown Co., Sect. "Hammersville" Cincinnati-West Union Rd., 0.637 mi., from J. E. Barbo, Withimsville, (c) $13,285. Brown Co., Sect. "P-1" Cincinnati-West Union Rd., 3.072 mi., from J. E. Barbo, Withimsville, (h) $62,688; C. E. Biehn, Georgetown, (h) $66,602; G. Miller, Brookville, (h) $66,863. Crawford Co., Sect. "G" Bucyrus-Cresline Rd., 1.69 mi., from H. Candel, Chatfield, (a) $54,413, (c) $53,909; F. F. Walton Co., Upper Sandusky, (a) $57,104, (f) $78,485; L. R. McMichael, Bucyrus, (c) $54,621, (f) $76,653; M. Gledgill & Son, Galion, (c) $56,508. Cuyahoga Co., Sect. "Rocky River" Cleveland-Sandusky Rd., 2.014 mi., from W. K. Drake, Marion (f) $132,550; Highway Constr. Co., 903 Lorain Co. Block Bldg., Elyria (h) $113,110, (j) $120,845; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (h) $113,800; Pub. Wks. Constr. Co., Reading Rd. and Summit Ave., Cincinnati, (j) $121,500. Hamilton Co., Sect. "B and Sharonville" Columbus-Cincinnati Rd., 2.003 mi., from Hinkle & Sullivan, 105 Bell Block, Cincinnati, (k) $106,795; A. P. Birbaum, Cincinnati, (j) $106,617, (k) $106,829; Pub. Wks. Constr. Co., Reading Rd. and Summit Ave., Cincinnati, (j) $108,117, (k) $108,117; Scully Bros., Harrison Pike Miamitown, Cincinnati, (j) $110,712. Hamilton Co., Sect. "A" Cincinnati-Zanesville Rd., 2.999 mi., from Bigler Bros., Middletown, (l) $117,766; Gradison Constr. Co., Cincinnati, (l) $121,048; J. Wroe, 54 Davies St., Dayton, (l) $123,235. Licking and Knox Counties, Sect. "K" Columbus-Millersburg Rd., 1.42 mi., from Richland Constr. Co., Bellevue, (e) $40,742. Lorain Co., Sect. "D and E" Cleveland-Elyria Rd., 6.23 mi., from M. A. Ryan, 870 Eddy Rd., Cleveland, (f) $186,826, (g) $127,586; Elyria Constr. Co., 220 Elyria Block, Elyria, (f) $188,823; Highway Constr. Co., 903 Lorain Co. Block Bldg., Elyria, (f) $194,373, (g) $131,133, (n) $151,645; Hill & Hill, Elyria, (g) $127,672; Genl. Asphalt Paving Co., Canton, (m) $126,300; Smith Constr. Co., Youngstown, (m) $141,664; H. P. Streicher Co., 319 Terminal Bldg., Toledo, (n) $155,305. Marion Co., Sect. "G" Marion-Marysville Rd., 2.057 mi., from H. P. Streicher Co., 319 Terminal Bldg., Toledo, (m) $50,361, (n) $52,854; F. F. Walter Co., Upper Sandusky, (m) $54,856; A. G. Pugh, Columbus, (n) $54,506. Noble Co., Sect. "N" Cambridge-Caldwell Rd., 3.594 mi., from McElfresh Co., Caldwell, (f) $74,447. Summit Co., Sect. "N-2" Cleveland-Massillon Rd., 3.494 mi., from Smith Constr. Co., Youngstown, (e) $113,744, (f) $144,497, (m) $123,673; W. E. Burke & Son, Akron, (f) $140,219, (g) $105,568, (m) $125,850; Doris Constr. Co., Akron, (m) $150,905. Summit Co., Sect. "O" Cleveland-Massillon Rd., 0.93 mi., from Smith Constr. Co., Youngstown, (e) $27,090, (f) $36,774, (m) $30,167; W. E. Burke & Son, Akron, (f) $34,440, (g) $24,985, (m) $30,308; Doris Constr. Co., Akron, (f) $37,021. Summit Co., Sect. "Clinton" Cleveland-Massillon Rd., 0.58 mi., from Smith Constr. Co., Youngstown, (e) $21,565, (f) $27,550, (l) $23,431; W. E. Burke & Son, Akron, (e) $23,570, (f) $26,219, (g) $20,303; Doris Constr. Co., Akron, (f) $27,703; Tuscarawas Co., Sect. "Mineral City" Canton-Canal Dover Rd., 1.03 mi., from Kane Bros., Youngstown, (o) $27,863; Daley Bros., Bolivar, (f) $34,983, (g) $26,530, (o) $28,618; H. Gilbert, East Akron, (f) $36,304. Mahoning Co., Sect. "D" Alliance-Sebring Rd., 0.99 mi., from H. Gilbert, East Akron, (f) $26,990; Sterling Contr., Akron, (g) $17,882. Mahoning Co., Sect. "W" Akron-Youngstown Rd., 0.457 mi., from R. C. Miller, Youngstown, (f) $13,861, (g) $8,756; E. De'Orio, Youngstown, (f) $13,961, (g) $12,375; City Constr. Co., Youngstown, (f) $14,347; Sterling Contr., Akron, (g) $9,552. Noted June 1.

O., Akron—E. A. Ziesloft, dir. Pub. Serv., opened bids June 7, grading, paving and laying walks on (1) 1,900 lin.ft. Aqueduct St., 6,720 sq.yd. vitr. brick, granite block or asphalt on 6 in. concrete, 3,500 lin.ft. stone curbing, 22,290 sq.ft. cement sidewalk, 8,000 cu.yd. earth excav., 300 lin.ft. granite circular curb, (2) 700 ft. Hillsdale Ave., 2,000 sq.yd. vitr. brick, 1,330 lin.ft. stone curbing, 1,320 lin.ft. cement sidewalk, 2,150 cu.yd. earth excav., (3) 390 ft. West Thornton St., 1,110 sq.yd. vitr. brick on 6 in. concrete, 690 lin.ft. stone curbing, 940 sq.ft. cement sidewalk, 1,600 cu.yd. earth excav., (4) 4,812 ft. Chalker, Salome, Woodward, Oakland and Mildred Sts., 30,250 sq.ft. cement sidewalk, 14,000 cu.yd. earth excav., from Columbus Asphalt Pavement Co., Buckeye Bldg., (1) $37,938; Hollinger & Davidson, South Bway., (1) $38,185, (2) $11,972, (3) $9,241; McAlonan Bros., West Buchtel Ave., (1) $39,001, (2) $11,914, (3) $7,991; T. E. McShaffrey Constr. Co., 171 South Forge St., (2) $14,222; Di Fotl Constr. Co., Akron, (3) $7,945, (4) $12,158; Shullo Constr. Co., Ohio Bldg., (4) $13,206; S. F. Baker, R.F.D., (4) $12,864.

O., Akron—Summit Co. opened bids June 8, paving North Hill Viaduct and approaches with 2,040 sq.yd. vitr. brick on concrete, 17,305 sq.yd. bitulithic, 32,700 lin.ft. cement sidewalk, 5,000 cu.yd. earth and 2,000 cu.yd. embankment excav., etc., from T. E. McShaffrey Constr. Co., 171 South Forge St., $73,019; Monarch Constr. Co., Columbus, $77,240. Engrs. est. $73,071.

O., Cleveland—Paving (1) Stolga Ave. from Starkweather to Clyde Aves., (2) St. Tichon Ave. from Starkweather to Clyde Aves., (3) Hazeldell Ave. from Dundee to Eddy Rds., from W. McDowell & Son, 10309 Miles Ave., (1) $13,271, (2) $13,444; Burnett & Hathaway, Pavers Exch., Society for Savings Bldg., (1) $13,810, (2) $13,950; Freshwater Constr. Co., Natl. Bldg., (3) $13,624; Rieley Bros., The Arcade, (3) $14,197. Work involves 5,140 lin.ft. stone curb and 4 in. tile gutter, 3,880 cu.yd. earth excav., 33,300 sq.ft. vitr. brick, 25,140 sq.ft. granite block.

O., Cleveland Heights (Warrensville, P. O.)—Grading, curbing, guttering, paving and repaving (1) Cumberland Rd., (2) Edendale Ave., (3) Noble Place, (4) Fairfax Rd., (5) Coventry Rd., (6) Mayfield Rd., from Baldwin Bros., 4500 Euclid Ave., Cleveland, (1) $41,607, (3) $38,354, (4) $6,604; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (1) $42,836, (2) $8,372, (3) $39,728, (5) $48,714, (6) $54,731; Rieley Bros., The Arcade, Cleveland, (2) $8,208, (4) $6,801, (5) $50,164; H. J. Herring, 10839 Drexel Ave., Cleveland, (6) $55,555. Work involves 22,400 lin.ft. stone curbing and drain tile gutter, 41,850 sq.yd. new asphalt, 28,700 sq.yd. asphalt resurfacing, 11,500 cu.yd. earth excav., 167,850 sq. yd. 6 in. concrete base. Noted June 1.

O., Lakewood, (Cleveland, P. O.)—Paving Lakewood Heights Blvd., involving 16,843 sq.yd. 2 in. asphalt, from Highway Constr. Co., Elyria Block, Elyria, $72,228; Cleveland Trinidad Paving Co., The Arcade, Cleveland, $73,525.

Mich., Detroit—Paving (1) Six Mile Rd., Sect. 2, (2) Six Mile Rd., Sect. 1, from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $84,423, (2) $12,156; Cleveland Trinidad Paving Co., 402 Hammond Bldg., (1) $92,439, (2) $13,230; G. R. Cooke, 1,260 Penobscot Bldg., (2) $12,992; lowest bidder on alleys as follows E. H. Porath, 8,746 Beechwood Ave., Alley 1,460, $4,871, Alley 1,462, $1,187, Alley 1,467, $2,912, alley 1,471, $2,039; Otis Cement Constr. Co., 806 Hammond Bldg., Alley 1,461, $1,793, Alley 1,463, $1,614, Alley 1,464, $1,398, Alley 1,468, $1,349, Alley 1,469, $1,646; T. E. Currie, 20 McGraw Bldg., Alley 1,465, $3,420; J. Porath, 34 McGraw Bldg., Alley 1,466, $2,393, Alley 1,470, $3,456.

Wis., Elkhorn—Walworth Co. State Road and Bridge Com., opened bids June 6, surfacing Zenda Rd., (a) 3,092 cu.yd. earth excav., (b) 14,578 sq.yd. 16 ft. concrete surfacing, (c) 4,900 bbl. cement in place, (d) 20,019 lb. reinforcing, from Whitewater Bridge Co., Whitewater, (a) $0.98, (b) $1.58, (c) $2.52, (d) $0.04, total $39,248; G. Welch, Water St., Beloit, (a) $0.95, (b) $1.62, (c) $2.50, (d) $0.035, $39,536. Noted June 1.

Missouri—State Hy. Dept. at div. office, Doniphan, opened bids May 1, 5.306 mi. road from Doniphan to Poplar Bluff, Federal Aid Project 91, Sect. B, Ripley Co., (1) 26,022 cu.yd. earth excav., (2) 3,768 cu.yd. borrow, etc., from T. T. Wright Lumber Co., Doniphan, (1) $0.38, (2) $0.35, total $30,920; W. A. Malugen, Doniphan, (1) $0.36, (2) $0.30, $31,718; Summerfield-Jones Co., Springfield, (1) $0.47, (2) $0.45, $34,166. Noted April 20.

Colorado—State Hy. Dept., Denver, grading (1) 3 mi. Independence Pass Rd., Project 503 B, Sect. A, Pitkin and Lake Counties; (2) 1.7 mi. Independence Pass Rd., Sect. B, Lake Co.; (3) 1.75 mi. Independence Pass Rd., Sect. C, Lake Co., (4) concrete paving 1.363 mi. various roads Federal Aid Project 162, Manitou Co., from W. A. Colt & Son, Las Animas, (1) $10,820, (2) $9,650, (3) $10,105; G. A. Allen, Morrison, (1) $12,375, (2) $11,150, (3) $11,430; Johnson & Stenson, 4426 Jason St., Denver, (1) $13,290; H. C. Lollier Eng. & Constr. Co., Hudson, (2) $11,545; E. B. Harlan, Twin Lake, (3) $12,204; Colorado Contg. Co., 802 Railroad Bldg., Denver, (4) $45,780; J. F. Roberts, 206 Tramway Bldg., Denver, (4) $46,279; C. N. Wheeler, 14 South 18th St., Colorado Springs, (4) $47,942. Noted May 25.

Wash., Yakima—Opened bids June 1, grading and graveling 11 mi. Summitview-Tieton-Cowiche Rd., 6 in. coarse and 1 in. fine gravel, 28,300 cu.yd. earth excav., from Sloane Constr. Co., Columbia Bldg., Spokane, $61,108; R. M. Hardy, Yakima, $66,444; C. T. Jordan, 1202 Harvard St., Seattle, $68,517.

Cal., Oakland—Improving 85th Ave. between 14th and E Sts., (a) 86,810 sq.ft. grading, (b) 4,024 ft. concrete curb, (c) 7,890 ft. concrete gutter, (d) 62,329 ft. oil macadam, (e) 7,581 sq.ft. cement walks, etc., from Hutchinson Co., 1706 Broadway St., (a) $0.045, (b) $0.70, (c) $0.26, (d) $0.115, (e) $0.16; Bates & Borland, Oakland Bank of Savings Bldg., (a) $0.045, (b) $0.75, (c) $0.24, (d) $0.12, (e) $0.16; Oakland Paving Co., 5000 Bway., (a) $0.048, (b) $0.72, (c) $0.23, (d) $0.139, (e) $0.18.

Cal., San Diego—Paving (1) Grape St. from 5th to Artic Sts., 1,300 lin.ft. cement curbing, 772 sq.yd. concrete, 5,326 sq.yd bituminous concrete, (2) Herman St., 6,450 lin.ft. cement curbing, 11,137 sq.ft. cement sidewalks, 5,025 sq.yd. asphaltic concrete 4½ in. thick, from California Constr. Co., 529 Granger Bldg., (1) $29,197, (2) $33,305; Fairchilds, Gilmore, Wilton Co., 610 South Main St., Los Angeles, (1) $33,163, (2) $33,339; G. R. Daley, 4440 Boundary St., (1) $34,709, (2) $32,890.

Cal., San Diego—Bd. Supervs. San Diego Co., paving Mission Rd. from Camp Kearney easterly over Poway Ridge, from H. H. Peterson, 3044 Goldsmith St., $96,084; C. H. Hudson, Morse-Strong Bldg., Los Angeles, $125,398; D. H. Ryan, 1615 Fern St., $144,115. County furnished cement and crushed rock. Noted May 18.

Cal., San Francisco—City and San Francisco Co., improving North Point St. from Columbus Ave. to Taylor St., etc., 118,000 sq. ft. asphaltic concrete, 974 lin. ft. 12 in. sewers, etc., from G. DeBrettville, 24 California St., $39,749; Fay Impvt. Co., Phelan Bldg., $42,488; C. B. Eaton, 407-11th St., $42,906.

CONTRACT AWARDED

Maine—State Hy. Dept., Augusta, gravel surfacing, **2.245 mi. Project 44**, known as State Highway "K", in Old Town to F. B. Hastings, 1335 Wood Ave., Bridgeport, Conn., $25,954; 2.492 mi. Project 31, known as State Highway "O", in Livermore and Hartford, to A. D. Bridges Sons, Inc., Hazardville, Conn., $40,681; 5.1 mi. Project 48, known as State Highway "K", in Milford and 4.29 mi. Project 49, known as State Highway "K", in Greenbush, to Frissell Engr. Co., Gardner Mass., $77,471 and $58,637 respectively, 3.11 mi. Project 50, known as State Highway "K", in Mars Hill, to McCabe & Giovannini, 24 East Concord St., Boston, Mass., $58,659; bituminous macadamizing 1.81 Project 46, known as State Highway "K", in Lewiston and cement concrete surfacing 3.55 mi. Projects 12 and 13, known as State Highway "E", in New Gloucester and Auburn, to Fish Bros., North Anson, $43,303 and $113,773 respectively; 2.49 mi. Project 40, known as State Highway "Q", to Hassam Paving Co., 17 Federal St., Worcester, Mass., $73,447. Noted June 8.

New Hampshire—State Hy. Dept., Concord, paving 4,224 ft. East Side Trunk line, Berlin, 8,450 sq.yd. concrete, to J. E. Byron, Berlin, $27,185.

Massachussetts—State Hy. Dept., Boston, 19,542 ft. State Highway in Easton and Raynham, concrete and bituminous mac-

Streets and Roads (Continued)

adam, to C. Bianchi & Co., Inc., 200 West Main St., Framingham, $180,342; 13,400 ft. State Highway in Mendon, bituminous macadam, to L. C. Carchia, 16 Foster St., Boston, $101,081; 1,850 ft. State Highway in Holbrook, bituminous macadam, to E. C. Sargent, 149 Putman St., Quincy, $11,920.

Connecticut—State Hy. Dept., Hartford, paving 7,580 ft. highway in New London, 5,170 cu.yd. 7 in. concrete, 26,500 sq.yd. earth grading, and relaying 1,000 ft. curbing, to Waterbury Concrete Constr. Co., 182 Grand St., Waterbury, $37,552. Noted June 8.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, repaving De Kalb Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $83,321; Graham Ave., to Greico Bros., 172 Russell St., $198,606; Hopkinson Ave., to Borough Asphalt Co., 1301 Metropolitan Ave., $8,973; resurfacing East 14th St., to C. Gallagher, 745 Dean St., $5,729; laying cement sidewalks on north side of Jamaica Ave., to Grimm Constr. Co., 170 McKinley Ave., $648. Noted June 1.

N. Y., Dunkirk—Monolithic brick paving and concrete curbing West 3rd St. to J. P. Morrissey, Dunkirk, $8,708; Canary St., to J. McNamara & Son, Dunkirk, $15,645. Noted June 8.

N. Y., Jamestown—Bd. Estimate & Review will pave Beech St., brick on concrete, Baker St. and Oak Hill Rd., both concrete, $23,000; concrete curb and gutter 500 ft. Howard St., $900, 700 ft. William St., $1,260, by day labor, under supervision of L. Bergman, city engr. Engrs. est. $25,000.

N. Y., Niagara Falls—To Read-Coddington Eng. Co., 238 Portage Rd., paving Ferry Ave., $47,923, Falls St., $76,000, 18th St., $47,528, all sheet asphalt also constructing concrete base garbage chute, $4,500; to J. F. McKinney Corp., Gluck Bldg., Mackenna Ave., $18,588, LaSalle Ave., Part 1, $49,279, LaSalle Ave., Part 2, $28,505, all 3 in. vertical fibre brick. Noted June 8.

N. Y., Rochester—Bd. Contract & Supply, paving Burrows St., asphalt, to Rochester Vulcanite Pavement Co., Rochester, $39,864; Newcastle Rd., bitulithic, to O. Costich Co., 131 Rosewood Terrace, $43,450.

N. Y., Rochester—C. L. Cadle, supt. Pub. Wks., Albany, paving portion of Rochester Canal terminal site, constructing railroad and crane tracks, here, Contr. 88, to I. M. Ludington Sons, Inc., 124 Powers Bldg., $102,670. Noted May 11.

N. Y., Rochester—Paving Laurelton Rd., bitulithic, to O. Costich Co., 131 Rosewood Terrace, $21,366; laying cement walks on Meredith St. to A. Petrossi, Rochester, $2,813; sewers in Merrill St. and Dewey Ave. to J. Passero, Rochester, $12,502.

N. Y., Westfield—Paving North Portage and English Sts., brick on concrete with bituminous filler, to Hart Contg. Co., Westfield, $40,241. Engrs. est. $46,000. Noted May 25.

N. J., Belvidere—Bd. Freeholders Warren Co., cement surfacing 5 mi. Hope-Blairstown Rd., to Korp & Korp, Phillipsburg, $133,490. Noted May 18.

N. J., Bridgeton—Cumberland Co. paving 17,450 sq.yd. State Highway Route 6, Sect. 12, East Commerce St., asphalt, to E. R. Mixner, Goshen, $80,422.

N. J., Lakewood—Ocean Co. (Toms River) reconstructing 22,785 sq.yd. State Highway Route 4, Sect. 15 from Central Ave. to Spruce St., here, concrete, to Pub. Serv. Product Co., Terminal Bldg., Newark, $75,748. Noted April 20.

N. J., Somerville—Somerset Co. constructing 47,023 sq.yd. Route 9, Sect. 8, New Jersey State Highway System from North Branch Sta. Rd. to point near Doughty Ave., concrete, to R. Sangiovanni, 78 Hoyt St., Newark, $159,077. Noted May 11.

N. J., Trenton—Mercer Co. paving 15,000 sq.yd. Sanhican Dr. from northwesterly boundary line of here to Yardley Highway Bridge across Delaware River, concrete, incl. 4,100 ft. cable guard rail, to Rose & Whelan, Broad St. Bank, $59,972. Noted May 25.

N. J., Trenton—Mercer Co., constructing 8,100 sq. yd. State Highway Route 2, sect. 3A, Whitehorse-Crosswicks Creek, cement concrete, to D. Klockner, Jr. 1601 Nottingham Way, $37,473. Engrs. est. $39,865. Noted May 18.

N. J., Trenton—Paving 9 streets, 37,285 sq.yd. asphalt and granite block, to J. J. Barrett, 147 Lafayette Ave., $177,931; 3 streets, 8,265 sq.yd. asphalt and granite block, to H. W. Rickard, 322 Lafayette Ave., $28,621. Noted May 25.

N. J., Wharton—Bd. Freeholders Morris Co. (Morristown) constructing 7,465 ft. Main St., here, to Northern Constr. Co., 423 Amherst St., East Orange, $27,049.

Pa., Brookville—Jefferson Co., resurfacing 8,000 ft. Newell Highway, tar, to Petriello Contg. Co., Brownsville, $47,190.

Pa., Erie—Paving Raspberry St., to McCormick & Son, Erie, $7,147; Penna. Ave., to J. & M. Doyle Co., Erie, $10,394; German St., Parts 1 and 2, to Mayer Bros., Constr. Co., Erie, $7,483 and $14,033 respectively, all asphalt. Noted May 11.

Pa., St. Marys—Paving 1,765 ft. various streets, incl. 1,562 cu.yd. excav., 3,430 ft. concrete curbing, 3,422 ft. underdrain, 4,475 sq.yd. brick paving, etc., to J. Weisner, St. Marys, $32,300.

Pa., Waynesburg—Greene Co., 1½ mi. Dry Tavern-Carmichaels Rd., concrete, to J. I. Dick, Scottdale, $74,799.

Maryland—State Roads Com., Baltimore, building sections of state highway in Queen Annes Co., Contr. Q-23, to J. K. Flick, Sudlersville; Caroline Co., Contr. CO-31, to Phillips and Neal, Hurlock; Dorchester Co., Contr. D-27, to J. K. Wetter, Salisbury; Baltimore City, Contr. BC-38, to Baltimore Asphalt Block & Tile Co., 1320 North Munroe St., Baltimore. Noted May 25.

W. Va., Logan—Grading and concrete paving Dingess, Godby, Main, Walnut, Ellison and Charles Sts., to E. A. Thompson, Logan, $35,050. Noted May 4.

North Carolina—State Hy. Dept. Raleigh, clearing, grading and plain concrete paving 11.07 mi. State Project 340, Cumberland Co., to Alabama Concrete Products Co., Selma, Ala., $335,388, rein.-con. bridges and culverts on above to Hobbs-Peabody Constr. Co., Blacksburg, S. C., $11,005, 9.77 mi. State Project 312, Brunswick Co., to Alabama Concrete Products Co., Selma, Ala., $303,173, rein.-con. bridges and culverts to Batson-Cook Co., West Point, Ga., $12,572; clearing, grading and topsoiling 17.43 mi. State Project 502, Alamance Co., to W. E. Graham, Mt. Ulla, $67,777, 9.15 mi. State Project 545, Hoke Co., to O. A. Mann & Co., La Grange, Ga., $36,743, 12.84 mi. State Project 364 B, Onslow Co., to A. W. McClay, 2,400 Grove Ave., Richmond, Va., $49,183; grading and plain concrete paving 9.2 mi. State Project 614, Cabarrus Co., to A. L. Harris, Newton, $280,545, 4.53 mi. State Project 670, Cabarrus and Rowan Counties, to Southern Constr. Co., Atlanta, Ga., $129,292, 17.98 mi. State Project 593, Rockingham and Caswell Counties, and grading, bridging and topsoiling 5.2 mi. State Project 327, Columbus Co., to J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., $477,630 and $34,790 respectively; grading, bridging and plain concrete paving 1.94 mi. State Project 954, Jackson Co. and grading and waterbound macadam paving 10¼ mi. State Project 913, Cherokee Co., to Mills-Williams Constr. Co., Winchester, Ky., $82,611 and $86,868 respectively; grading, bridging and rein.-con. paving 8.9 mi. State Project 741, Forsyth Co., to Hardaway Constr. Co., Charlotte, $286,387; clearing, grading and bridging 12.72 mi. State Project 953, Jackson Co., to C. C. McCabe, Tuxedo, $107,444. Noted June 8.

N. C., Rockingham—Bd. Aldermen paving various streets with sheet asphalt on 5 in. concrete, to Hedrick Constr. Co., Burlington, $160,229. Noted May 18.

S. C., Sumter—Sumter Co. paving 3.64 mi. Stateburg Rd., asphalt to Slattery & Henry, Greenville, $100,000.

S. C., Sumter—Sumter Co. Rd. Comrs., surfacing with asphalt 6½ mi. Pinewood and Camden Rds., to Powell Paving Co., Greenville, $150,000. Noted May 18.

Fla., Gainesville—Bd. Bond Trustees, Alachua Co., surfacing Gainesville-Fairbanks-Waldo Rd., 114,000 sq.yd. lime rock, to Mickler & McLeod, Tampa, $71,820. Noted May 25.

Fla., Ocala—Comrs. Marion Co., paving 20 mi. State Rd. 2, from Belleview to Lake Co. line, lime rock compacted to Barber, Fortin Co., Warren, O., $164,090. Noted May 11.

Fla., Wauchula—Paving various streets, 58,500 sq.yd. asphaltic concrete, 39,440 lin. ft. curbing, 18,000 cu.yd. excav., to Stidham & Hughes, Lakeland, $128,492. Noted April 13.

Tennessee—State Hy. Comn., Nashville, 8 in. hand placed coarse stone base and 2½ in. penetration surface on 6.81 mi. roadway from Rutherford Co. line to Woodbury, Federal Aid Project 49, Cannon Co., to B. Williams, Murfreesboro, $160,904; 8.91 mi. roadway between Pikeville and Rhea Co. line, Federal Aid Project 84, Bledsoe Co., to R. S. Freeman & Co., Knoxville, $240,621. Noted June 1.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Allen Co., Sect. "A-2" Lima-Kenton Rd., 0.499 mi., bituminous concrete, to Republic Asphalt Paving Co., 702 Commercial Bldg., Dayton, $15,639. Allen Co., Sect. "B" Lima-Kenton Rd., 3.746 mi., bituminous concrete, to Republic Asphalt Paving Co., 702 Commercial Bldg., Dayton, 103,019. Allen Co., Sect. "C-1" Lima-Kenton Rd., 2.754 mi., bituminous concrete, to Republic Asphalt Paving Co., 702 Commercial Bldg., Dayton, $77,033. Allen Co., Sect. "C-2", Lima-Kenton Rd., 1.502 mi., Republic Asphalt Paving Co., 702 Commercial Bldg., Dayton, $43,119. Ashland Co., Sect. "B" Mansfield-Ashland Rd., 3.523 mi., monolithic brick, to Dorsey Constr. Co., Findlay, $122,830. Hardin Co., Sect. "G" Marion-Kenton Rd., 4.041 mi., asphaltic macadam, to Losey Road Constr. Co., Kenton, $90,154. Hardin Co., Sect. "H" Marion-Kenton Rd., 3.011 mi., asphaltic macadam, to D. F. Druschel, Kenton, $53,863. Hardin Co., Sect. "H" Lima-Kenton Rd., 3.337 mi., Kentucky rock asphalt, to McArthur & Co., Kenton, $82,798. Hardin Co., Sect. "I" Lima-Kenton Rd., 2.159 mi. Kentucky rock asphalt, to McArthur & Co., Kenton, $58,151. Hardin Co., Sect. "J" Lima-Kenton Rd., 3.298 mi., Kentucky rock asphalt, to J. W. Carey, Ada, $90,965. Huron Co., Sect. "B" Tiffin-New Haven Rd., 2.6 mi., asphaltic macadam, to C. M. Gray, Waterville, $51,473. Knox Co., Sect. "M" Mt. Vernon-Coshocton Rd., 5.525 mi., waterbound gravel, Gallon Constr. Co., Gallon, $54,239. Marion Co., Sect. "A" Marion-Bucyrus Rd., 2.952 mi., brick, to Newark Paving & Constr. Co., Newark, $87,253. Marion Co., Sect. "B" Marion-Bucyrus Rd., 3.747 mi., brick, to Newark Paving & Constr. Co., Newark, $127,054. Ottawa Co., Sect. "H" Port Clinton-Marblehead Rd., 3.619 mi., rein.-con. to J. Sheehan Co., Toledo, $93,251. Portage Co., Sect. "E" Warren-Burton Rd., 1.933 mi., rein.-con., Turner Constr. Co., Youngstown, $73,413. Richland Co., Sect. "R" Mansfield-Ashland Rd., 0.877 mi., brick, to D. M. Roach, Defiance, $59,251. Sandusky Co. Sect. "T" and "U" Lima-Sandusky Rd., 5.747 mi., brick, to Modern Constr. Co., Fremont, $194,479. Seneca Co., Sect. "C" Columbus-Sandusky Rd., 4.241 mi., bituminous concrete, to Laubis Stone Co., Kenton, $101,625. Seneca Co., Sect. "P-1" Findlay-Tiffin Rd., 1.13 mi., bituminous concrete, to Modern Constr. Co., Fremont, $34,608. Seneca Co., Sect. "C" Tiffin-Fostoria Rd., 5 mi., to Modern Constr. Co., Fremont, $146,391. Stark Co., Sect. "A" and "Minerva" Minerva-Sandusky Rd., 0.805 mi., monolithic brick, to Allison-Harris Co., East Liverpool, $26,668. Vinton Co., Sect. "M" McArthur-Chillicothe Rd., 4.406 mi., grading and bridges, to Foy-Nixon Co., Columbus, $29,882. Wayne Co., Sect. "E" and "F" Akron-Wooster Rd., 5.026 mi., grading only, to Benschoter-Launder Co., Toledo, $29,538. Noted June 8.

O., Akron—Repaving and widening 1,900 ft. West Market St., 2,825 sq.yd. vitrified brick, 1,900 sq.yd. texaco asphalt, 1,600 lin.ft. stone curbing, 13,200 sq.ft. cement sidewalk, etc., 2,300 cu.yd. earth excav., 5,820 sq.yd. 6 in. concrete case, to T. E. McShaffrey Constr. Co., South Forge St., $44,147. Engrs. est. $48,940.

O., Columbus—W. H. Duffy, dir. Pub. Serv., paving and approaches to 1,485 ft. Town St. Bridge, to Franklin Asphalt Paving Co., 209 South High St., $21,548; grading and paving 365 ft. alley west of Worthington St. and alley west of Harrison Ave., to Yale Constr. Co., Columbus, $2,164 and $2,768 respectively. Noted June 1.

O., Columbus—Franklin Co., to Stinchcomb & Essman, 237 East 11th St., grading, bridging and paving 2.42 mi. Lockbourne Rd. 1, $38,406, 2.46 mi. Lockbourne Rd. 2, $40,616, 0.35 mi. Lockbourne Rd. 3, $5,338; to D. W. Botkin & Son, 767 South 22nd St., 3.5 mi. Lee Rd., Plain Twp., $73,430; to J. C. McCain, 191 Belvidere Ave., 1.74 mi. Caldwell-Davidson Rd., $32,430; to McDaniel & Walsh, Builders & Traders Exch., 1.2 mi. Collingwood Ave., Truro Twp., $23,880, all bituminous macadam. Noted June 8.

O., Dayton—Concrete curbing and rein.-con. paving Dakota St. from Bway. to Summit St. and Kenwood St. from Salem to Richmond Sts., to C. Hoolihan, 1406 Riverview Ave., $15,988 and $17,810 respectively.

O., Shaker Heights (Cleveland P. O.)—Paving Palmerston and Eaton Rds., asphalt, to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $77,971. Noted June 1.

Ind., Brownstown—Jackson Co., paving 15,840 ft. County Unit Rd., 26,400 sq.yd. concrete on concrete, to Davis & Godfrey, Seymour, $65,000. Engrs. est. $72,000.

Ind., Goshen—Elkhart Co., gravel surfacing 3 mi. Fisher Rd., to H. Miller, Elkhart, $33,900. Engrs. est. $35,500.

Streets and Roads (Continued)

Ind., Jasper—Du Bois Co., gravel surfacing 2½ mi. County Unit Rd., to A. B. Kremp, Jasper, $27,490. Engrs. est. $30,000.

Michigan — State Hy. Dept., Lansing, grading and surfacing 6.825 mi. State Trunk Line Rd. 46-2, Montcalm Co., to A. Folks, Hanover, $47,259; 3.493 mi. State Trunk Line Rd., 46-5, Montcalm Co., to Baker & Snyder, Lakeview, $26,455; 15.977 mi. Federal Aid Project 68, Ingham and Clinton Counties, to H. C. Webber Constr. Co., Bay City, $304,653; 1.386 mi. Federal Aid Project 52, Sect. A, and State Trunk Line Rd., 17-11, Kalamazoo Co., to O. M. Whitlew, Grand Rapids, $26,102; 1.982 mi. State Trunk Line Rd. 19-9, Sect. A, Sanilac Co., to C. H. Frame & Son, Harbor Beach, $34,488; 6.049 mi. State Trunk Line Rd. 19-15, Sanilac Co., to Wilton & Karrer, Lexington, $54,287; 4.818 mi. State Trunk Line Rd. 19-9, Sect. B, Sanilac Co., to Flushing Constr. Co., Flushing, $57,150; 4.565 mi. State Trunk Line Rd. 27-9, Sect. B, Sanilac Co., to Alzina Constr. Co., Detroit, $44,203.

Michigan—State Hy. Dept., Lansing, grading and surfacing 1.985 mi. State Trunk Line Rd., 25-12 Sect. A, Chippewa Co., 14,784 cu. yd. excav., 18,633 sq. yd. waterbound macadam, to Edwards Constr. Co., Saulte Ste. Marie, $37,999; grading 4.994 mi. State Trunk Line Rd. 25-12, Sect. B, Chippewa Co., 22,441 cu. yd. excav., to N. Bye, Saulte Ste. Marie, $13,589.

Michigan—State Hy. Dept., Lansing, grading and surfacing 12.08 mi. Federal Aid Project 65, St. Clair Co., to A. J. Smith Constr. Co., 408 West Fort St., Detroit, incl. 2.294 cu.yd. earth excav., $0.50, 601.8 sta. grading, $15, 35.1 cu.yd. 1:2:4 concrete, $13,127,572 sq.yd. rein.-con. pavement, $1.48, total $200,189; 8.257 mi. State Trunk Line Rd. 15-16, Sect. A, Marquette Co., to Garvey-Weyenberg Constr. Co., 807 College Ave., Appleton, Wis., incl. 28 acres clearing $20, 51,592 cu.yd. earth excav., $0.45, 43 cu.yd. rock excav., $3, 778.9 cu.yd. 1:2:4 concrete, $16, 87 cu.yd. 1:3:6 concrete, $15, 72,283 sq.yd. macadam surface, $1.06 total, $146,398; 4.98 mi. State Trunk Line Rd. 12-35, Chippewa Co., to Edwards Constr. Co., Saulte Ste. Marie, incl. 45,441 cu.yd. earth excav., $0.47, 479.9 cu.yd. 1:2:4 concrete, $15.50, 386.4 cu.yd. 1:3:6 concrete, $14, 46,640 sq.yd. gravel, $0.485, total $63,-126.

Mich., Detroit—To Detroit Asphalt Paving Co., 20 McGraw Bldg., paving Bryden Ave., $7,246, Cabot Ave., $20,885, Edgevale Ave., $12,499, Ironside St., $4,242, Palmer Ave., from Bellevue to Baldwin Aves., $30,469, Palmer Ave. from Baldwin to Van Dyke Aves., $4,651, Six Mile Rd., Sect. 2, $84,423, Six Mile Rd., Sect. 1, $12,156; T. E. Currie, 20 McGraw Bldg., Alley 1454, $4,040, Alley 1457, $3,146, Alley 1465, $3,420, Alley 1443, $3,360, Alley 1444, $2,212, Alley 1448, $3,377; Otis Cement Constr. Co., 806 Hammond Bldg., Alley 1455, $6,257, Alley 1456, $3,765, Alley 1459, $2,302, Alley 1461, $1,793, Alley 1463, $1,614, Alley 1464, $1,398, Alley 1468, $1,349, Alley 1469, $1,646, Alley 1446, $1,238, Alley 1447, $1,292, Alley 1449, $1,750; J. Porath, 34 McGraw Bldg., Alley 1458, $968, Alley 1466, $2,393, Alley 1470, $3,456; Alley 1445, $1,155, Alley 1452, $3,458, Alley 1453, $3,565; E. H. Porath, 8746 Beechwood Ave., Alley 1460, $4,871, Alley 1462, $1,187, Alley 1467 $2,912, Alley 1471, $2,039; R. J. Powelson & Co., 6445 Iroquois Ave., Alley 1442, $3,029; Gustin & Co., 5332 Allendale Ave., Alley 1450, $4,745; A. F. Lester, 309 Sun Bldg., Alley 1451, $1,133. Noted May 25.

Ill., Oregon—Ogle Co. grading and gravel surfacing 1.75 mi. Sect. 15-D, Lafayette Twp., near Rochelle, to E. Rocho, 309 Second Natl. Bank Bldg., Freeport, $16,494. Noted May 4.

Wisconsin — State Hy. Dept., Madison, Hudson-Baldwin Rd., Project 309, St. Croix Co., to Ofstie & Mulheron, Spring Valley, 22,437 cu.yd. earth excav., $0.35, 1,461 cu. yd. borrow $0.35, etc., total $28,677; Ellsworth-Spring Valley Rd., Project 308, Pierce Co., to W. J. Wolf, Eau Claire, 21,701 cu.yd. earth excav., $0.32, 1,842 cu. yd. hard pan excav., $0.70, etc., total $17,-275; Prescott-Ellsworth Rd., Wisconsin Project 267, Pierce Co., to S. J. Groves & Sons Co., Globe Bldg., Minneapolis, Minn., 21,258 cu.yd. earth excav. $0.29, 302 cu.yd. loose rock, $1.15, etc., total $22,445; Menomonie-Hudson Rd. Project 152, Dunn Co., to Lowe Bros., Eau Claire, 6.33 acres clearing and grubbing $80, 32,804 cu.yd. earth excav., $0.245, etc. total $34,494; Medford-Merrill Rd., Project 310, Taylor Co., to W. H. Bent, Eagle River, 3.76 acres clearing and grubbing $75, 26,784 cu.yd. earth excav. $0.34, 2,450 cu.yd. borrow $0.34, etc., total $35,879; Humbird-Fairchild Rd., Project 302, Clark Co. to W. E. Johnson & Son, Augusta 29,181 cu.yd. earth excav. $0.27, 1,022 cu.yd. hard pan excav. $0.45, etc., total $33,042; Neundorf Bridge on Project 310, containing 46,720 lb. steel, to G. E. Warden Co., Cameron St., Eau Claire, $5,189. Noted May 25.

Wisconsin—State Hy. Dept., Madison, grading and surfacing 9 mi. Hayward-Minong Rd., to Ord & Co., Duluth, Minn., $47,607; 17 mi. Haywood-Courderay Rd., to S. J. Groves & Sons Co., Manhattan Bldg., Duluth, Minn., $68,404; 5 mi. Bayfield-Cornucopia Rd., to W. McDonald, Ashland, $36,894. Noted May 18.

Wis., Viroqua—Paving various streets, one course rein.-con., to Lampert Constr. Co., 104 Main St., Oshkosh, $2.69 per sq. yd. Engrs. est. $25,000.

Ia., Carroll—Paving 55 blocks with 2 course asphaltic concrete, to J. S. McLaughlin & Son, Mankato, Minn., $2.49 per sq.yd., total $176,713. Noted May 4.

Minn., Winnebago—Grading and paving various streets, 34,960 sq.yd. asphaltic concrete class C. and 7,201 cu.yd. excav., to Hanlon & Okes, 338 Lumber Exch. Bldg., Minneapolis, $100,642; 16,333 lin.ft. concrete curbing, to Simonson & Larson, Winnebago, $14,135. Noted May 25.

Kan., Fredonia—Wilson Co.—will build 9.123 mi. gravel road from here to Altoona, Federal Aid project 119, by day labor. C. P. Donald, Fredonia, engr.

S. D., Aberdeen — Paving 60,000 sq.yd. various streets, to C. H. Atkinson & Co., Watertown, $2.13 per sq.yd. 6 in. thick and $2.40 per sq.yd. 7 in. thick. Noted May 11.

S. D., Sisseton—State Hy. Comn. at Sisseton grading 14 mi. Federal Aid Project 96, to H. J. Hawley & Son, Trail City, $36,000; 3 mi. Federal Aid Project 41C, to Triggs & Cary, Peever, both Roberts Co. Noted April 13.

S. D., Sturgis—Meade Co., grading 14 mi. Federal Aid Project 88 A, to E. Parrish, Rapid City, $27,885; one 76 ft., one 48 ft. concrete and one 30 ft. I beam bridges, to H. Pickus Constr. Co., Sioux City, Ia., $40,-148. Noted May 11.

N. D., Devils Lake—Ramsey Co., gravel surfacing 14.4 mi. Federal Aid Project 19, Sects. B, C and D, to W. H. Noel, Jamestown, $21,460; excavating 5.8 mi. Federal Aid Project 155, 27,297 cu.yd. excav., and 7 mi. Federal Aid Project 41, Sect. B, 43,510 cu.yd. excav., to T. Young & Son, Devils Lake, $18,256. Noted May 11.

N. D., Minot—Ward Co. grading 14.5 mi. Federal Aid Project 85 through Carpio and Foxholm, to Schultz Bros., Bowbells, $34,-619; gravel surfacing 10.7 mi. Federal Aid Project 84 and 7 mi. Federal Aid Project 83, to Stanley Bros., St. Cloud, Minn., $20,-800; rein.-con. work, to J. J. Rue & Son, Baldwin, $23,233; culverts to North Dakota Metal Culvert Co., Fargo, $6,917. Noted May 11.

N. D., Stanley—Mountrail Co., grading 12 mi. Federal Aid Project between Ross and White Earth, to Russell-Hamlin Co., Mildred, Mont, $27,831; rein.-con. and steel bridges to Independent Bridge Co., 1101 Metropolitan Life Bldg., Minneapolis, Minn., $8,677; culverts to Klauer Mfg. Co., 9th and Washington Sts., Dubuque, Ia., $3,830.

Mont., Libby—Lincoln Co. grading and gravel surfacing 12 mi. Libby-Rexford Rd., to Yates Torgenson, Wolf Point, $38,000.

Missouri—State Hy. Dept. at div. office Alton, 5.722 mi. road from Shannon Co. line to Ripley Co. line, State Aid Project 20,123, Oregon Co., to Service Constr. Co., Poplar Bluff, $28,348. Noted June 1.

Tex., Ballinger—Runnels Co. 9.79 mi. gravel road on Highway 30, grading and gravel surfacing to G. B. Heath, Midland, $16,069; drainage structures to Kuykendall & Shelton, Temple, $13,118. Noted June 8.

Tex., Waco—McLennan Co. grading and gravel surfacing 10.57 mi. State Highway 7, to Kuykendall & Shelton, Temple, $77,-955. Engrs. est. $85,751. Noted June 8.

Okla., Bristow — Curbing, grading and brick paving Dists. 4 and 7, to Standard Paving Co., 321 North Boston St., Tulsa, $97,500 and $62,000 respectively.

Okla., Weatherford—Paving with brick 10,200 sq.yd. Main St., to Standard Paving Co., 321 North Boston St., Tulsa, $48,909.

Colorado—State Hy. Dept., Denver, paving 2.736 mi. from Broomfield north to Lafayette, Denver-Ft. Collins Rd., Federal Aid Project 222 A, Adams Boulder and Jefferson Counties, 18 ft. plain concrete, to Miller, Douglas & Haynes, 100 South York St., Denver, $88,336; 100 ft. steel truss bridge over Sampson Creek near Melvin, State Project 673, Arapahoe Co., to Colorado Bridge and Constr. Co., c/o Denver Gas & Electric Co., Denver, $15,342. Noted May 25.

Nevada—State Hy. Dept., Carson City, grading and gravel surfacing (1) 22.95 mi. Sect. B, Route 2, Pancake Summit to Illipah, White Pine Co., (2) 15.01 mi. Sect. C-2, Route 2, Illipah to Robinsons Summit, White Pine Co., (3) 19.83 mi. Sect. B, Route 1, Elko to Halleck, Elko Co., from Nevada Contg. Co., (1) $174,778 (2) $99,-960; Strange & Vallandingham, Salt Lake City, Utah, (1) $188,714 (2) $116,747; Dodge Bros. & Dudley, Fallon, (1) $201,978 (3) $127,664; J. H. Causten, Lovelock, (2) $93,027; Phelps Constr. Co., Salt Lake City, Utah, (3) $110,127; Johnston, Gillespie, Adamson & Russell, Salt Lake City, Utah, (3) $124,408. Contract awarded to lowest bidder on each project. Noted May 25.

Cal., Marysville—Improving various streets 32,915 sq.ft. 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete, 85,897 sq.ft. 1½ in. warrenite bitulithic on 2½ in asphaltic concrete, 118,811 sq. ft. grading, etc., to Warren Constr. Co., Rialto Bldg., San Francisco, $24,416.

Cal., Oxnard—Improving various streets to Southwest Paving Co., 415 Washington Bldg., Los Angeles, 518,000 sq.ft. grading at $0.03, 320,800 sq.ft. 4 in. asphaltic concrete with 1½ in. surface, $0.19, 43,340 sq.ft. 4 in. concrete with 1½ in. asphaltic concrete surface, $0.19, 78,020 sq.ft 6 in. concrete, $0.22, 64,230 sq.ft. 5 in. concrete, $0.195, 11,610 sq.ft. 4 in. concrete $0.16, 3,100 lin.ft. cement curb, $0.50, 26,000 sq.ft. cement gutter, $0.25, 5,000 sq.ft. cement walks, $0.20, total $128,363. Noted May 18.

Cal., Redondo Beach—Improving Strand St., to E. L. Garretson & Son, 7083 Hawthorne Ave., Los Angeles, 3,597 lin.ft. cement curbing, at $0.60 per lin.ft., 14,155 sq.ft. 4 in. cement sidewalks, $0.23, 50,000 sq.ft. 6 in. concrete, $0.26, 37,000 sq.ft. 5 in. concrete, $0.24, 2,400 lin.ft. 4 in. rein.-con. walk with curb, $7, 1,600 lin.ft. 2½ in. rein.-con. walk on wood bents, etc., $13, 6,500 lin.ft. headers, $0.30, etc., total $76,602. Noted May 18.

Cal., Santa Ana—Paving E. 16th and 17th Sts., 138,231 sq. ft., grading, 138,231 sq. ft. 6 in. concrete, etc to B. R. Ford, 407 West 17th St., $33,197. Noted May 25.

Cal., Santa Monica—To J. D. Kneen, Dudley Bldg., improving 14th St., 284,278 sq.ft. grading, at $0.034 per sq.ft., 284,278 sq.ft. bitulithic macadam on asphaltic concrete, $0.193, total $65,932.

Cal., Santa Rosa—Sonoma Co. will improve Valley Ford-Freestone Rd., by day labor, under supervision of R. P. Smith, co. surv. Former bids rejected. Noted June 8.

Cal., Westminster—Orange Co. (Santa Ana) surfacing with 4 in. asphaltic concrete, 9,600 ft. Huntington and Westminster Blvds., to S. Finley, Santa Ana, $29,663.

Cal., Woodland—Yolo Co., to A. Teichert & Sons, Ochsner Bldg., Sacramento, paving prefix 6, Sect. C, with two course 5 in. asphaltic concrete, $97,982; improving Prefix 6, Sect. B, 2,700 cu.yd. excav., $0.90, 193 ft. 12 in. corrugated pipe, $1.75, 180 ft. curb and gutter, $0.96, 5 yd. cement, $27.50, 41,390 ft. 5 in. asphaltic concrete, $0.239.

N. B., Fredericton—P. J. Venoit, minister pub. wks., 6 mi. road from Musquash to Lepreaux, Contr. 32, to C. Carneil, St. John, $30,000; 5.3 mi. road from Merepis to Welsford, Contr. 33, and 4 min. from Buctouche north, Contr. 34, to Concrete Builders, Ltd., Fredericton, $34,000 and $32,000 respectively; 6.1 mi. from the range to Cumberland Bay, Contr. 35, to Dept. Pub. Wks., Fredericton, $12,000; 6 mi. from Andover to Aroostook Junction, Contr. 36, to G. Hammon, Prince Williams, $24,000. Noted May 11.

Que., St. Lambert—Paving 14,000 sq.yd. Riverside Dr., to Warren Bituminous Paving Co., 54 University Ave., Toronto, Ont., $3.58 per sq.yd. Noted June 8.

Ont., Kitchener—Asphalt pavements on various streets, to Standard Paving Co. Ltd., Central Chambers, Ottawa. Engrs. est. $290,000.

Ont., St. Thomas—Paving roadways, bituminous macadam, to E. P. Cash, 41 Elgin St., $2.30 per sq.yd. Engrs. total est. $30,000.

Industrial Works

PROPOSED WORK

N. H., Plaistow—Merrimack Clay Products Co., c/o M. A. McGrath, treas., 38 Newbury St., Newton Center, Mass., plans 1 story, hollow tile plant, here. $125,000. Private plans.

R. I., Pawtucket — Perry & Whipple, archts. and engrs., Rhode Island Hospital Trust Bldg., Providence, soon lets contract 6 story, 85 x 190 ft. brick and steel addition to plant, plain foundation, here for Hope Webbing Co., 1005 Main St.

Industrial Works (Continued)

R. I., Providence—Visitor Printing Co., "Providence Visitor," soon lets contract 2 story, 80 x 90 ft., brick and steel printing plant, plain foundation, Fenner St. and Pond Ave., $40,000. Private plans.

N. Y., Dansville—See "Miscellaneous."

Pa., New Brighton—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, having plans prepared by W. H. Garver, engr., New Brighton, c/o owner, 1 story and mezzanine, 100 x 203 ft. concrete and brick machine shop. $100,000.

Pa., Phila.—Bayunk Bros., Inc., 3rd and Spruce Sts., soon take bids 4 story, 84 x 109 ft. cigar factory, rein.-con. and brick, plain foundation, 10th and Bainbridge Sts. $250,000. E. A. Wilson, 1208 Chestnut St., archt.

Pa., Pittsburgh—J. D. McIlroy & Sons, 508 2nd Ave., having plans prepared for 1 story, brick factory, 800 2nd Ave. $40,000. Private plans.

Pa., Washington—Observer Publishing Co. having revised plans prepared by W. L. Stoddart, archt., 9 East 40th St., New York, 2 story, 60 x 150 ft., limestone and brick plant, Main St. $150,000. Noted May 25.

Pa., West Hickory—H. H. Smith & Co., c/o P. R. Smith, mgr., Ridgeway, plans to rebuild factory, here, recently destroyed by fire. $50,000. Architect not announced.

Va., Suffolk—Parker Buggy Co. plans to rebuild factory recently destroyed by fire. D. E. Parker, pres.

W. Va., Sisterville—Grant Automatic Flowing Valve Co., c/o F. J. McCoy, secy., plans 1 story, 80 x 100 ft., plant, brick or metal siding. $40,000. Architect not selected.

Tenn., Johnson City—Tennessee Eastern Co., soon awards contract hydro electric plant, 4,500 hp. near here. $300,000. Private plans.

O., Dayton—See "Buildings."

Mich., Detroit—S. E. Remey, archt., 1140 Griswold St., preparing plans for 2 story, 50 x 200 ft. concrete, brick and steel garage, plain foundation. East Jefferson Ave. Owner's name withheld.

Mich., Grand Rapids—Hayes-Iona Co. Inc., Muskegon St., N. W., plans addition to factory. To exceed $40,000. Private plans.

Ill., Chicago—W. F. Block & Co., 1845 Lamon Ave., having plans prepared by H. H. Green, archt., 304 South Wabash Ave., 1 and 2 story, 180 x 200 ft. rein.-con., brick and steel factory, 1828 Lamon Ave. $100,000.

Wis., Merrill—Wisconsin Mfg. Co., c/o E. Chauvin, plans 2 story, 50 x 90 ft., brick and rein.-con. factory, plain foundation. $45,000. Architect not selected.

Ia., Oskaloosa—See "Waterworks."

Kan., Liberal—City, c/o L. L. Holland, city clk., making plans power plant with 1,000 hp. capacity. Ruckel Eng. Co., Hutchinson, engrs.

N. M., Albuquerque—Atchison, Topeka & Santa Fe R. R., 80 East Jackson Blvd., Chicago, having plans prepared by E. A. Harrison, archt., c/o owner, rein.-con., brick and steel boiler shop, here. $500,000. C. F. W. Felt, ch. engr.

Cal., Pittsburg—California Bean Growers Assn., 120 Battery St., San Francisco, had plans prepared by MacDonald Eng. Co., engrs., 149 California St., San Francisco, 1 story 80 x 350 ft. corrugated iron warehouse and 5 story, 20 x 40 ft., mill, here. Noted April 27.

Cal., Pittsburg—Pioneer Rubber Mills, 68 Sacramento St., San Francisco, having plans prepared by B. G. McDougall, archt., 381 Bush St., San Francisco, rein.-con. addition to factory, here. $100,000. G. Towne, genl. mgr.

Ont., Burgoyne—Ontario Hydro Comn., 190 University Ave., Toronto, will secure estimates for electric power development plant, on Saugeen River, here. $500,000. A. Jeffery, 190 University Ave., Toronto, engr.

Ont., Huntsville—Muskoka Wood Mfg. Co., plans to rebuild factory recently destroyed by fire. $100,000. Prices wanted on equipment.

BIDS DESIRED

N. Y., Central Islip—June 28, by State Hospital Comn., Albany, addition to storehouse for cold storage plant and equipment, at Central Islip State Hospital, here. L. F. Pilcher, Albany, state archt. Adv. this issue.

N. Y., New York—June 23, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., repair shop, 16th St. and Ave. C, for Dept Street Cleaning.

Pa., Ridgeway—Keystone Power Corp., offices at Ridgeway and Land Title Bldg., Phila., will build 100 x 100 ft. addition to power plant here. Work will be done by separate contract. Private plans.

Ill., Chicago—Dubin & Eisenberg, archts., 14 West Washington St., receiving bids 3 story, 62 x 125 ft. factory and garage, rein.-con., brick and steel, South Kedzie and Fillmore Sts., for K. Kaufman Bros., c/o architect. $60,000.

Wis., Milwaukee—June 23, (change of date), by Sewerage Comn., 580 Market St., superstructures of 90 x 225 ft. main power house and 68 x 166 ft. boiler plant, brick and steel. Noted June 1.

Ia., Maquoketa—See "Buildings."

BIDS RECEIVED

D. C., Wash.—Dist. Comrs., 509 Dist. Bldg., power house, complete incl. mechanical equipment and radial brick stack, at Gallinger Hospital, 19th St. and Massachusetts Ave., S. E., from M. B. Casey, 3207 14th St., N. W., $105,044; Federal Heating Co., 310 13th St., $108,215; Standard Eng. Co., 2122 I St., $112,500. Noted May 25.

CONTRACTS AWARDED

Mass., Lynn—A. M. Creighton, 27 Willow St., 4 story, 50 x 225 x 255 ft., shoe factory, brick and concrete, Lynn Blvd., to Turner Constr. Co., 178 Tremont St., Boston. Archts. est. $300,000.

N. Y., Brooklyn—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, housing station, at 18th Ave. between 55th and 58th Sts., here, to T. A. Reilly Co., 48 East 41st St., New York, for Dept Street Cleaning. $79,131. Noted June 1.

N. Y., New York—O. Sinauer, c/o N. Langer, archt. and engr., 81 East 125th St., will build 1 story, brick and steel garage, plain foundation, 234 West 154th St., by day labor, Archts. est. $50,000.

N. Y., New York—G. H. Whalen, comr. Plant & Structures, Municipal Bldg., housing station and destructor, at 56th St. and 12th Ave., to Willets Constr. Co., 280 Madison Ave., for Dept. Street Cleaning. $299,700. Noted June 8.

N. Y., Niagara Falls—Kimberly-Clark Paper Co., Packard Rd., two 50 x 100 ft. and two 50 x 120 ft., steel and concrete factories, Packard Rd., to Harding & Crea, White Bldg., Buffalo, $60,000.

Pa., Johnstown—Johnstown Terminal Warehouse Co., 5 story, 125 x 250 ft., rein.-con., brick and steel warehouse, Maple and Woodvale Aves., to W. Steele & Sons Co., 16th and Arch Sts., Phila. Engrs. est. $500,000. Noted April 6.

Pa., Phila.—Barrie & Sons, 1312 Walnut St., 3 story, 22 x 106 ft., brick, steel and stone printing plant, plain foundation, 1821 Walnut St., to F. B. Davis, Inc., 240 North 16th St. Engrs. est. $80,000.

Pa., Phila.—Ballinger & Co., archts., 12th and Chestnut Sts., 3 story, 82 x 273 ft., brick and steel factory, plain foundation, Margaret and James Sts., to Cramp & Co., Denckla Bldg., for Blumenthal Bros., Margaret and James Sts., $200,000. Noted May 11.

Pa., Phila.—Columbia Carpet Mills, 3rd and Huntingdon Sts., 5 story, 40 x 114 x 146 ft., rein.-con. and brick plant, plain foundation, 3rd and Cumberland Sts., to W. Steele & Sons, 16th and Arch Sts.

Pa., Phila.—Fidelity Machine Co., 4015 Paul St., 1 story, 86 x 160 ft. and 2 story, 40 x 86 ft., brick and steel machine shop, plain foundation, Pike St. and Frankford Ave., to A. W. Shirreff, 608 Chestnut St.

Pa., Phila.—Supplee-Wills-Jones Co., 26th and Jefferson Sts., 2 story, 80 x 90 ft. brick and steel garage, plain foundation, 1520 North Stillman St., to G. Kessler Co., Drexel Bldg., $55,000.

Pa., Pittsburgh—Newspaper Printing Co., Gazette Sq., general contract, 3 story, 81 x 84 x 107 ft., addition to plant, to W. T. Grange Constr. Co., Keenan Bldg. Engrs. est. $175,000.

Pa., Pittsburgh—Haller Baking Co., 260 North Denniston Ave., 2 story, 86 x 92 ft. garage, Shakespeare St., to D. T. Riffle, 1003 Forbes St. Engrs. est. $50,000.

Pa., Primos—Jones Machine Wks., 53rd and Landsdowne Aves., Phila., 1 story, 60 x 200 ft. amchine shop, here, by day labor. $50,000. Private plans.

Pa., Rochester—Amer. Borax Co., c/o Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, general contract, 3 story, 50 x 100 ft., 1 story, 50 x 100 ft. and 1 story, 30 x 50 ft. factory and power plant, to Austin Co., Euclid Ave., Cleveland, O. Engrs. est. $90,000.

Pa., Williamsport—Peters Packing Co., 4 story, 68 x 68 ft., rein.-con. and brick plant, plain foundation, to Turner Constr. Co., 1713 Sansom St. $130,000.

Pa., Wissinoming (Phila. P. O.)—C. Wunder, archt., 1415 Locust St., Phila., 1 story, 35 x 50 ft. and 1 story, 48 x 234 ft. brick and steel warehouse, plain foundation, Delaware Ave., to E. E. Hollenback Co., 1804 Brandywine St., for Natl. Ammonia Co., Delaware Ave., $50,000. Noted May 18.

Va., Norfolk — Lowenberg - Goodman Corp., 127 Granby St., 91 x 305 ft., brick and concrete garage, Granby and 11th Sts., to Johnson Constr. Co., Law Bldg., $194,000. Noted May 25.

O., Cleveland—York Ohio Ice Machine Co., 1106 Woodland Ave., 2 story, 100 x 132 ft. brick and steel warehouse, factory and office building, West 28th St. and Washington Ave., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $60,000. Noted June 8.

O., Cleveland—A. Zicha, 3587 East 108th St., 2 story, 42 x 66 ft., brick and timber, bakery and commercial building, plain foundation, 4110 Memphis Ave., to J. Janecek, 3596 East 105th St. Archts. est. $40,000.

Mich., Detroit—Fisher Body Co., Genl. Motors Bldg., 6 story, 102 x 979 ft., rein.-con. and brick factory, plain foundation, Fort St., to W. E. Wood & Co., 1805 Ford Bldg. $2,000,000. Noted May 25.

Wis., Appleton—Scolding Lock Hairpin Co., 844 College Ave., 1 story, 40 x 200 ft., brick, rein.-con. and steel factory, plain foundation, to W. Lemke, 892 Commercial St. $50,000.

Wis., Fairwater—Fairwater Co-operative Creamery, 2 story, 70 x 85 ft., brick, rein.-con. and steel dairy, plain foundation, to Hutter Constr. Co., 120 Main St., Fond du Lac, $50,000.

Wis., Madison—O. Mayer & Co., 1241 Sedgwick St., Chicago, general contract, 1 story, 70 x 110 ft., brick, rein.-con. and steel engine house and condensor, plain foundation, North St., here, to J. H. Findorff, 601 West Wilson St.

Wis., Madison—Madison Gas & Electric Co., c/o J. St. John, mgr., 1 story, 50 x 75 ft., brick, rein.-con. and steel, garage and repair shop, plain foundation, Blount St., to T. S. Willis, Washington Bldg., $40,000. Noted May 18.

Wis., Madison—North Wisconsin Oil Co., Menasha, 1 story, 50 x 110 ft., brick and rein.-con. garage and filling station, plain foundation, Gilman St., here, to J. H. Kelley, Madison St. Archts. est. $45,000.

Wis., Madison—J. Peterson, 102 South Orchard St., 1 story, 114 x 117 ft., brick, rein.-con. and steel garage and repair shop, plain foundation, Monroe St., to Wisconsin Constr. Co., 102 South Orchard St. $50,000. Noted May 4.

Wis., Milwaukee — Claybourn Process Corp., Menasha, general contract, 1 story, 115 x 200 ft., brick and steel manufacturing building, plain foundation, Humboldt Ave., here, to P. Riesens Sons, 1018 Humboldt Ave.; structural steel, to Lakeside Bridge & Steel Co., North Milwaukee. Noted June 8.

Wis., Omro—Omro Co-operative Butter & Cheese Co., 1 story, 69 x 74 ft., creamery and cheese factory, brick and tile, plain foundation, to Fluer Bros. Constr. Co., 52 State St., Oshkosh. $50,000.

Wis., Peshtigo—Peshtigo Electric Co., 50 x 75 ft., brick, rein.-con. and steel, hydro power plant, plain foundation, incl. reconstruction of dam, to C. H. Danielson, Peshtigo, $40,000.

Wis., Verona—Dane Co., c/o Clerk, Madison, 1 story, 50 x 90 ft., brick, rein.-con. and steel power house, plain foundation, here, to C. W. Noble, 206 State Bank Bldg., La Crosse. Archts. est. $40,000.

Minn., Cloquet—Northwest Paper Co., constructing 3 story, paper mill, to Siems Helmers & Shaffener Co., 514 Guardian Life Bldg., St. Paul, $500,000. Noted Feb. 2.

Minn., St. Paul—Minnesota Mining & Mfg Co., 791 Forest Ave., 3 story, 77 x 152 ft., brick and concrete warehouse, Forest Ave. and Farquier St., to H. C. Struchen Co., 404 Dakota Bldg., $40,000.

Que., St. Johns—Franco-Canadian Dyeing Co., 1 and 2 story, 300 x 300 ft. plant, here to Church, Ross & Co., Cathcart St., Montreal. $180,000.

Ont., Welland—Empire Cotton Co., addition to plant, to J. C. Gardner., Welland. Engrs. est. $250,000. Noted April 27.

Buildings

PROPOSED WORK

N. Y., New York—School—Bd. Educ., 500 Park Ave., had plans prepared by C. B. J. Snyder, archt. and engr., Concord St., Brooklyn, 6 story, brick, steel and stone, plain foundation, 2nd Ave. and 67th St. $1,800,000.

Buildings (Continued)

Pa., Pittsburgh—Apartment Hotel—Hotel Schenley, c/o Nicola Realty Co., Farmers Bank Bldg., having plans prepared by Rutan, Russell & Wood, archts., Century Bldg., altering and 10 story, brick and tile addition, Forbes St. and Bigelow Blvd. $3,500,000.

Pa., Pittsburgh—Office—A. H. DuPuy, Empire Bldg., plans 18 story 49 x 112 ft. addition to present 12 story building, brick and steel, Liberty Ave., and Stanwix St. $1,250,000. Architect not announced.

N. C., Boone—Administration, etc.—Appalachian Training School, takes bids within 30 days, constructing administration and academic building. $150,000. H. A. Underwood, 225 Forest Rd., Raleigh, engr.

Tenn., Memphis—Temple and Office—Jones & Furbringer, Porter Bldg. and Hanker & Cairns, Madison Ave. Bldg, associated archts., will probably take bids in few weeks, 10 story, 56 x 150 ft., concrete, steel, brick and terra cotta, Front and Monroe Sts., for Al Chymia Temple, Mystic Shrine. $1,000,000. Noted May 11.

Ky., Louisville—Hotel—Seelbach Hotel Co., 4th St. and Winter Ave., plans 15 story, 3rd and Guthrie St. $4,000,000. Architect not selected.

O., Grafton—Hospital—State of Ohio, Columbus, having plans prepared by R. S. Harsh, archt., Ohio Bldg., Columbus, hospital for insane in North Eaton Twp., on 900 acre plot, here. $1,000,000.

Ill., Chicago—Church—St. Chrysostom's Episcopal Parish c/o Clark & Walcott, archts., 8 East Huron St., plans rein.-con., brick and steel, 1440 North Dearborn St., first unit $200,000, total $1,000,000.

Ill., Chicago—Hotel—Allerton House Co., 369 Lexington Ave., New York, having preliminary plans prepared by Murgatroyd & Ogden, archts. and engrs., 369 Lexington Ave., New York, 20 story, 109 x 150 ft., rein.-con., brick and steel, plain foundation, Michigan Blvd. and Huron St., here. $4,000,000.

Ill., Chicago—Office—Chicago Tribune, Madison and Dearborn Sts., plans 22 story, 100 x 225 ft., office, Michigan and Illinois Sts., $4,000,000.

Wis., Stevens Point—High School—Bd. Educ. had revised plans and specifications prepared and soon takes bids, (1st unit), 2 story, brick, concrete and tile, plain foundation. $150,000. R. A. Messmer & Bros., 221 Grand Ave., Milwaukee, archts. Noted May 11.

Tex., San Antonio—Schools—June 20 to vote on $1,500,000 bonds for junior high school and $500,000 bonds for grade schools. W. H. Hargis, chn.

Wash., Tacoma—Hotel—Citizens Hotel Corp., plans hotel. $1,025,000.

Ont., Ojibway—Housing, etc.—Canadian Steel Corp., plans 3,000 four to nine room houses, also post office, police station and fire stations. $5,000,000. W. B. Perley, genl. mgr. A. Baltzell, c/o owner, engr.

BIDS DESIRED

Me., Waterville—High School—Building Com. taking bids 2 story, brick and steel, plain foundation, Pleasant and School Sts. $150,000. H. T. Muzzy, 40 Main St., archt.

N. Y., New York—Apartment—Estate of G. F. Johnson, Inc., 30 East 42nd St., 5 story, 90 x 100 ft., brick, steel and stone, plain foundation, Rogers Pl. $175,000. Work will be done by separate contracts under supervision of C. Kreymborg, archt. and engr., 2534 Marion Ave.

N. Y., New York—Apartment—One Thousand One Forty Three 5th Ave. Corp., c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., 7 story, brick, steel and stone, plain foundation, 1143 5th Ave. $250,000. Work will be done by separate contracts under supervision of architect.

N. Y., New York—Drill Shed—June 22, by Armory Bd., constructing drill shed for 15th Infantry, 142nd and 143rd Sts., between Lenox and 5th Aves. J. Trainer, secy.

N. Y., New York—School—June 19, by C. B. J. Snyder, supt. School Buildings of Bd. Educ. of New York, Flatbush Ave. and Concord St., Brooklyn, P. S. 80, East 120th St., here.

N. Y., Solvay (Syracuse, P. O.)—High School—June 20, by Bd. Educ., new high school. To exceed $150,000. M. L. King, Snow Bldg., Syracuse, Archt. Noted May 18.

N. J., Bordentown—School—June 28, by State Comr. of Educ., Trenton, additions and alterations to Manual Training and Industrial School for Colored Youths, here, incl. 2 wings 37 x 90 ft. $150,000. Gilbert & Betelle, 546 Broad St., Newark, and A. H. Moses, Merchantville, archts.

N. J., Vineland—Hospital—Stearns & Woodnut, archts., Stephen Girard Bldg., Phila. taking, bids, 2 and 3 story, 60 x 173 ft., stone and brick, plain foundation, here, for Necomb Hospital. $250,000.

Pa., Conshocken—High School—June 19, by School Bd., 3 story, brick, steel and stone, plain foundation. $150,000. H. L. Reinhold, Jr., 1513 Walnut St., Phila., archt.

Pa., Dunlo—High School—June 30, by M. L. Smith, secy. Adams Twp. School Dist. 3 story, 95 x 120 ft. brick, at Lovett. $150,000. W. G. Eckles, New Castle, archt.

Pa., Pittsburgh—Bank—Weary & Alford, archts., 1923 Calumet Ave., Chicago, Ill., will build 7 story, 40 x 120 ft. brick, steel and stone, 5th Ave., here, for Exch. Natl. Bank, 240 5th Ave. $350,000. Work will be done by separate contract. Noted June 1.

N. C., Lenoir—Home—June 20, by Bd. Home Comrs., Caldwell Co., constructing brick home. F. B. Simpson, 110 East Lane St., Raleigh, archt.

S. C., Greenville—Church—June 25, by Building Com. of Earle St. Baptist Church, c/o Jones & Tratt, Inc., archts., Greenville, 2 story, 50 x 80 x 160 ft., brick, rein.-con. and stone, Earle St.

O., Cleveland—High School—July 3, oy Bd. Educ., East 6th St. and Rockwell Ave., 3 story, 40 room, rein.-con., steel and brick addition, plain foundation, West 93rd St. and Williard Ave., $925,000. W. R. McCornack, East 6th St., and Rockwell Ave., archt. Noted May 11.

O., East Cleveland (Cleveland P. O.)—Apartment—R. A. Stillwell, 2166 St. James Parkway, Cleveland, taking bids, 3 story, 86 x 117 ft., brick and timber, plain foundation, Taylorhurst allotment, here. $150,000. H. W. Grieme, Engineers Bldg., Cleveland, archt. Noted May 25.

O., Toledo—June 26, by Bd. Educ., 3 story, 70 x 250 ft., rein.-con., steel and brick, plain foundation, Jerman St. $260,000.

Ind., Gary—Church—Lowe & Bollenbacker, archts., 208 South La Salle St., Chicago, receiving bids 1 story, 56 x 125 ft., 6th and Washington Sts., here, for First Methodist Episcopal Church, Adams and 7th Sts. $700,000. Noted May 11.

Mich., Fowlerville—School—June 23, by F. Richter, secy. Bd. Educ., 2 story, 102 x 112 ft., rein.-con., brick and steel, plain foundation. $150,000. W. S. Holmes Co., Tussing Bldg., Lansing, archts.

Ill., Chicago—Apartment—E. P. Rupert, archt., 19 South La Salle St., receiving bids 3 story, 145 x 178 ft., rein.-con., brick and steel, South Shore Dr., for M. B. Flynn, 511 East 60th St., $250,000.

Ill., Chicago—Apartment—Minchin-Spitz & Co., archts., 19 West Jackson Blvd., receiving bids 3 story, 147 x 150 ft., rein.-con., brick and steel, Wilson St. and Central Park, for L. Seigal, c/o architect. $250,000.

Ill., Chicago—Apartment—P. F. Olsen, archt., 127 North Dearborn St., receiving bids 3 story, 80 x 125 ft., rein.-con., brick and steel, Waller Ave. near North Clark St., for V. Peterson c/o architect. $200,000.

Ill., Chicago—Apartment—B. L. Steif, archt., 64 West Randolph St., receiving bids 3 story, 100 x 100 ft., rein.-con., brick and steel, 620 Addison St., for S. A. Cohn, 620 Addison St., $150,000.

Ill., Chicago—Apartment—Hotel—W. P. Doerr, archt., 28 East Jackson Blvd., receiving bids 10 story, 142 x 176 ft., rein.-con., brick and steel, Hyde Park Blvd. and 53rd St., for East End Park Building Corp., c/o architect. $2,000,000.

Ill., Chicago—Bank—W. G. Uffendell, archt., 39 South State St., receiving bids 8 story, 65 x 115 ft., rein.-con., brick and steel, 68th St. and Stony Island Ave., for Stony Island Trust & Savings Bank, 6822 Stony Island Ave., $500,000. Noted May 18.

Ill., Chicago—Bank and Office—W. G. Uffendell, archt., 32 South State St., receiving bids 3 story, 71 x 81 ft., rein.-con., brick and steel, Roosevelt Rd. and Ashland Ave., for West Side Natl. Bank, 1600 West Roosevelt Rd., $160,000. Noted Sept. 15.

Ill., Chicago—Hotel—W. W. Ahlschlager, archt., 65 East Huron St., receiving bids 10 story, 137 x 150 ft., rein.-con., brick and steel, addition Kenmore and Granville Sts., for Albert Hotel and Building Corp., c/o architect, $1,500,000. Noted June 8.

Ill., Chicago—Store, Office, etc.—Waltersdorf & Bernhard, archts., 138 North La Salle St., receiving bids 3 story, 56 x 100 ft. rein.-con., brick and steel, stores, office and apartment, Jackson and Crawford Sts., for Lambert Tree Estate, 138 North La Salle St., $150,000.

Ill., Evanston—Church—W. C. Jones, archt., 19 South La Salle St., receiving bids 2 story, rein.-con., brick and steel, Greenwood Ave. and Maple St., for St. Paul's English Lutheran Congregation, c/o architect. $175,000. Noted March 30.

Ill., Urbana—Agricultural—July 17, at Office J. M. White, superv. archt., 276 Administration Bldg., University of Illinois, for agricultural building; adv. this issue.

Wis., Rhinelander—Hospital—S. Brielmaier & Sons Co., archts., 432 Bway., Milwaukee, receiving bids 3 story, brick, concrete and tile addition to St. Marys Hospital, plain foundation. $100,000-$150,000. Noted April 6.

Wis., Stevens Point—High School—June 23, by School Bd., 2 story, brick, concrete and tile, plain foundation. $150,000. R. Messmer & Bro., 221 Grand Ave., Milwaukee, archts.

Ia., Maquoketa—High School—July 6, by Bd. Educ., 2 story, rein.-con., brick, tile and stone, incl. boiler house, $200,000. A. H. Ebeling, 819 Kahl Bldg., Davenport, archt. Former bids rejected. Noted June 1.

Minn., St. Paul—High School—June 19, by H. W. Austin, city purch. agt., City Hall, 3 story, 150 x 250 ft. school with 2 story, 48 x 90 ft. wing for gymnasium and auditorium, rein.-con., brick, tile and stone, Isabel Ave. and Congress St. $420,000. C. A. Hausler, City Hall, archt. Noted May 25.

Minn., Stillwater—High School—June 26, by A. J. Holm, clk., Bd. Educ., 3 story, 82 x 144 ft., rein.-con., brick, tile and stone, $250,000. Stebbins & Haxby, 320 Auditorium Bldg., archts. Noted Oct. 6.

Neb., Scottsbluff—School—June 30, by W. O. French, secy. Bd. Educ., 3 story, 198 x 343 ft., rein.-con., brick and steel, plain foundation, Bway. $300,000. R. A. Bradley & Co., Scottsbluff, archts. Noted May 4.

S. D., Sioux Falls—School—June 30, by Bd. Educ., 3 story, rein.-con., brick and tile. $150,000. Hughill & Blatherwick, 366 Boyce-Greeley Bldg., archts.

N. D., Grafton—Dormitory—July 6, by State Bd. Administration, Bismark, 4 story, rein.-con., brick, tile and stone. $150,000. J. B. DeRemer, Grand Forks, archt. Noted March 16.

Cal., Ocean Park—Office, etc.—Casino Building Co., will build 3 story, 104 x 200 ft., brick and steel, office, casino, dance hall and restaurant, Navy St. and Ocean Front. $250,000. Work will be done by separate contracts. Russell & Alpaugh, 1,106 Story Bldg., Los Angeles, archts.

Cal., Pasadena—School—June 27, by Bd. Educ., constructing 2 buildings, brick, on Washington School Site. $175,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts. Noted April 20.

Cal., Reedley—School—June 30, by Union High School Trustees, constructing group of 6 buildings, incl. administration, gymnasium, cafeteria, manual training, etc., mostly brick, concrete foundation. Trewhitt & Shields, Rowell Bldg., Fresno and N. F. Marsh, Bway. Central Bldg., Los Angeles, archts. Noted Feb. 2.

Cal., San Bernardino—Auditorium—June 30, by City Council, 2 story, 100 x 126 ft., steel and rein.-con., Pioneer Park. $200,000. H. E. Jones, Katz Bldg., archt.

BIDS RECEIVED

Mass., Revere—High School—Opened bids June 1, 4 story, 75 x 132 ft., brick, from Beacon Constr. Co., 110 State St., Boston, $224,829; C. S. Cunningham & Sons, 80 Boylston St., Boston, $226,670; A. B. Carter & Sons, 73 Tremont St., Boston, $239,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, P. S. 188, brick, steel and stone, Neptune Ave. between West 33rd and West 35th Sts., here, from P. J. Brennan & Son, 624 Madison Ave., New York, $568,824; G. F. Driscoll & Co., 115 Schermerhorn St., $585,891; Werner-Disken Co., $572,311. Noted June 8.

N. Y., New York—Court House—Bd. Estimate & Apportionment, Municipal Bldg., opened bids June 2, granite superstructure (1) base, (2) above base, (3) cut cast stone, from Harrison Granite Co., Inc., 200 5th Ave. (1) $298,542, (2) $1,490,581, (3) $15,560; steel from Bethlehem Steel Bridge Corp., Bethlehem, Pa., $850,000. I. T. Brady & Co., 103 Park Ave., $898,840;

Buildings (Continued)

rein.-con. floors from J. T. Brady & Co., 103 Park Ave., $484,480; brick from D. E. Conners, 15 West 91st St., $583,000. Only bidder for entire general contract was G. A. Fuller Co., 175 5th Ave., $4,139,000. Noted June 8.

Col., Denver—Hotel—C. W. Fisher Realty Co., c/o Western Paper Box Co., 2133 Blake St., opened bids on general contract, 7 story, 75 x 125 ft., 17th and Wazee Sts., from A. Simpson Jr., Colorado Natl. Bank Bldg., $207,500; Allison Stocker, Chamber of Commerce Bldg., $221,300; F. J. Kirchof Constr. Co., 718 Lawrence St., $221,955.

Minn., Minneapolis—Library—State Bd. of Control, State House, St. Paul, opened bids June 8, 6 story, 400 x 400 ft., rein.-con., brick, tile and stone. State University Campus, here, from C. Skooglun, 502 Ryan Bldg., St. Paul, $926,856; Madsen Constr. Co., 848 Builders Exch. Bldg., Minneapolis, $933,000; J. Peterson, 3050 10th Ave., S. Minneapolis $945,000.

Cal., Redwood City—High School—Sequoia Union High School Dist., constructing three 1 story, rein.-con. and timber, State Highway and Bway., general contract from C. L. Wold, 185 Stevenson St., San Francisco, $265,000, P. F. Reilly, 180 Jessie St., San Francisco, $274,000, Ward and Jones, 180 Jessie St., San Francisco, $282,000; plastering from A. Knowles, Call Bldg., San Francisco, $54,000, J. F. Smith, 180 Jessie St., San Francisco, $61,200; plumbing from Christensen & Anderson, Palo Alto, $30,-462, C. T. Doell, 467 21st St., Oakland, $34,901; heating and ventilating from J. F. McGowan, 150 A St., San Mateo, $34,394, J. E. O'Mara, 443 Minna St., San Francisco, $34,644, Burnham Plumbing Co., 1220 Webster St., San Francisco, $35,000. Noted Dec. 15.

CONTRACTS AWARDED

Conn., Westport—Y. M. C. A., c/o E. T. Bedford, Greens Farms, 3 story, 115 x 125 ft., brick, concrete and steel, plain foundation, State St., here, to J. Lawry, Jr., 161 East 65th St., New York. Archts. est. $250,000.

N. Y., Brooklyn—Hospital—State Hospital Comn., Albany, general contract 4 story, 67 x 192 ft. administration and staff building, rein.-con. and brick, at state hospital, here, to W. W. Constr. Co., 51 East 42nd St., New York, $298,000; heating work, to Chute, Thornton & Bayley Corp., 153 East 42nd St., New York, $26,998; sanitary work, to E. W. Tompkins & Co., 27 Grand St., Albany, $26,940. Noted May 11.

N. Y., Fulton—Schools—Bd. Educ., addition to Phillips St. School, also Walradt St. School, to F. T. Ley, 19 West 44th St., New York. Archts. est. $750,000. Noted May 11.

N. Y., New York—Apartment—Escallaw Co., c/o W. Williams, archt. and engr., 309 5th Ave., 5 story, 115 x 200 ft., brick, steel and stone, plain foundation, 173th St. and Haven Ave., by day labor. Archts. est. $200,000.

N. Y., New York—Apartment—Eystrom Holding Co., c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., 6 story, brick, steel and stone, plain foundation, Crotona Park E., by day labor. Archts. est. $200,000.

N. Y., New York—Apartment—Kroog Holding Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, Davidson Ave., by day labor. $200,000.

N. Y., New York—Store and Loft—Cohestell Realty Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build brick, steel and stone, plain foundation, West 38th St., by day labor. Archts. est. $600,000.

N. J., Trenton—Kitchen and Dining Room—State Hospital Comn., general contract, 2 story, 185 x 204 ft., rein.-con. and brick, for State Hospital of Insane, to C. J. Smith, 202 Academy St., $173,650. Noted April 6.

N. J., Verona—High School—Bd. Educ., general contract, brick, steel and stone, to G. C. Marsted, 17 Gould St., $96,302. Noted May 18.

Pa., Pittsburgh—E. B. Lee, archt., Chamber Commerce Bldg., 3 story, 80 x 140 ft., Y. M. C. A., Center Ave., to D. T. Riffle, 1009 Forbes St., for Y. M. C. A., Magee Bldg. Noted May 4.

Va., Portsmouth — Schools — Norview School, brick, and Tanners Creek School, to Gooch-Williams Co., Haddington Bldg., Norfolk, $89,000 and $46,800 respectively; West Norfolk School, brick, to Amer. Constr. Co., Norfolk. $21,617.

Va., Welsh—Carter Hotel Co., 5 story, 72 x 85 ft., brick and stone, to Greene & Stowe, Welsh, $150,000.

W. Va., Bluefield—Hotel—Cole Realty Co., 12 story, 50 x 175 ft., Scott and Federal Sts., superstructure to McDevitt Fleming Co., Mc C and Lindsay Aves., Chattanooga, Tenn. Archts. est. $750,000. Noted April 20.

W. Va., Terra Alta—High School—Bd. Educ., 2 story, concrete, to King Lumber Co., Charlottesville, Va. Archts. est. $150,-000. Noted May 18.

N. C., High Point—Municipal—Constructing municipal building, general contract, to J. A. Jones Constr. Co., Realty Bldg., Charlotte, $167,000. Noted June 8.

Ga., Macon—Court House—Bibb Co., general contract, 3 story, 103 x 178 ft., rein.-con., concrete, steel and brick, rock foundation, to Southern Ferro Concrete Co., Trust Co. of Georgia Bldg., Atlanta, $364,-451. Noted April 13.

Tenn., Memphis—Auditorium, etc.—For superstructure of auditorium and market house, 1000 x 1000 ft., concrete, steel brick, to J. A. Alexander Constr. Co., Memphis, $784,725. Noted Jan. 12.

O., Cleveland—School—Spencerian Commercial School, East 18th St. and Euclid Ave., 2 story, 100 x 100 ft., brick, steel and concrete, 3201 Euclid Ave., to W. Dunbar Co., 8201 Cedar Ave.

O., Columbus — Church—Third Ave. Methodist Episcopal Church c/o A. C. Shoole, pastor, brick and stone church, North High St., to D. D. Livingston, South 6th St., $150,000. Noted May 5, 1921.

O., Columbus—Cottages—State Dept. Pub. Welfore, 9th and Oak Sts., two 2 story, 80 x 140 ft. brick and concrete cottages, at state institution for feeble minded. West Broad St., to Boyajohn & Barr, 8 East Broad St. $193,000. Noted May 11.

O., Columbus—High School—E. L. McCune, clk. Bd. Educ., Town and High Sts., general contract Abraham Lincoln High School, 2 story, 220 x 300 ft., brick, steel and concrete, Deshler Ave., to Walbridge-Aldinger Co., 2356 Penobscot Bldg., Detroit, Mich., $544,690; electrical work, to Hughes-Peters Co., 104 East Long St., $26,687; heating and plumbing work, to W. H. Conklin Co., 78 North Grant Ave., $110,-225. Noted June 8.

O., East Cleveland (Cleveland P. O.)—Apartment—R. A. Stillwell, 2166 St. James Parkway, 4 story, 86 x 117 ft., brick and timber, Taylorhurst allotment, to Concrete Constr. Co., 1904 Euclid Ave., Cleveland. Archts. est. $150,000.

O., North Ridgeville—Church and Parish House—J. E. Potter & Co., archts., Prospect 4th Bldg., Cleveland, 1 and 2 story, 60 x 130 ft. and 38 x 56 ft. brick, steel and concrete, here, to U. S. Eng. & Constr. Co., Engineers Bldg., Cleveland, for St. Peters Roman Catholic Church. Archts. est. $150,000. Noted May 18.

O., Springfield—High School—Bd. Educ., 2 story, 150 x 170 ft. junior high school, to T Graham, Springfield, $230,000. Noted May 25.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story, 13 room, rein.-con., brick and steel, plain foundation, Philip, Korte and Avondale Aves., to A. A. Albrecht Co., 1130 Penobscot Bldg. $150,000.

Mich., Detroit—Store and Office—Park Blvd. Co., c/o A. Kahn, archt., 1000 Marquette Bldg., 8 story, 80 x 100 ft., rein.-con., brick, steel and stone, plain foundation, Adams Ave. and Park Blvd., to Bryant & Detwiler, 2336 Dime Bank Bldg., $600,-000. Noted April 20.

Ill., Chicago—Apartment—I. S. Satter, 5439 Prairie Ave., 3 story, 100 x 119 ft., rein.-con., brick and steel, North St. Louis and Ainslie Sts., to C. Chapman 118 North La Salle St., $150,000.

Ill., Chicago—Bank—West Englewood Trust and Savings Bank, 1610 West 63rd St., 2 story, 53 x 125 ft., rein.-con., brick and steel, 1622-24 West 63rd St., to West Englewood Constr. and Supply Co., 6237 South Ashland Ave. Archts. est. $200,000.

Ill., Chicago—Hotel—F. Kuehl and G. Bruchman, c/o W. T. Hooper, archt., 7 and 8 story, 60 x 186 ft., rein.-con., brick and steel, 554 Diversey Parkway, to Gen. Building Constr. Co., 4447 North Kedzie Ave., $1,500,000.

Ill., Chicago—Office—London Guarantee and Accident Co., 108 South La Salle St., brick, steel and stone, Michigan Ave., to D. P. Robinson & Co., Inc., 125 East 46th St., New York, $5,000,000.

Wis., Beaver Dam—School—Bd. Educ. c/o Clerk, general contract, 2 story, 75 x 180 ft., brick, rein.-con. and steel high and grade school, plain foundation, to W. H. Farley, Main St., New Lisbon, $153,255. Noted May 25.

Wis., Oshkosh — Convent, etc.—Mercy Hospital, 185 Hazel St., 2 story, 57 x 83 and 3 story, 65 x 150 ft., convent, chapel, boiler house and laundry, brick and concrete, plain foundation, Hazel St., to Fluor Bros. Constr. Co., 52 State St., $165,500. Noted April 13.

Wis., Sparta—High School—Bd. Educ. c/o Clerk, general contract, 2 story, 80 x 190 ft., brick, rein.-con., and steel, junior and senior high school, plain foundation, Main St., to Naset Bros., Sparta, $198,200; steam heating to Downey Heating & Supply Co., 613 Claybourn St., Milwaukee, $30,950. Archts. est. $250,000. Noted May 25.

Minn., Minneapolis—Bank—Federal Reserve Bank of 9th Dist., c/o J. H. Rich, reserve agt., 5th and 2nd Aves. general contract 7 story, 158 x 160 ft., 71-75 5th St. S., to C. F. Haglin & Sons Co., 226 Lumber Exch. Bldg.; heating, plumbing and ventilating to H. Kelly & Co., 925 Plymouth Bldg.; structural steel to Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave. Total about $2,000,000. Noted May 11.

Ia., Mason City — Schools — Bd. Educ. general contract Forest Park School, to M. M. Moen, Mason City, $59,075; Midland Heights School, to G. P. Peterson, Clear Lake, $54,640, both 2 story, 62 x 107 ft., rein.-con., brick, tile and stone. Noted May 11.

N. D., Grand Forks—Law—State Bd. Administration, Bismarck, general contract 3 story, rein.-con., brick, stone and tile, on campus, here, to Thorwaldson & Johnson, Grand Forks. $117,000. Noted May 11.

Cal., Sacramento—Bank—Bank of Italy, Eddy and Powell Sts., San Francisco, general contract, 1 story, 6th and K Sts., here, to K. E. Parker Co., Clunie Bldg., $120,000. Noted May 25.

Cal., San Francisco—School—City and San Francisco Co., general contract, constructing Andrew Jackson School, rein.-con., Grove St., to O. Monson, 251 Kearny St., $125,330. Noted May 25.

Ont., Hamilton—Stores and Theatre—Deta Properties Ltd., 74 Proctor Blvd., 3 story, 80 x 320 ft., brick and rein.-con., to W. H. Cooper, Clyde Blk. Engrs. est. $300,000.

Federal Government Work

PROPOSED WORK

N. J., Manasquan—Radio Compass—Spec. 4663—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radio compass, here.

Va., Hampton Roads—Equipment—Spec. 4667—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to purchase coal and ash handling equipment for use, here.

Cal., Mare Island—Power House Extension—Spec. 4664—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extension to power house, here.

Cal., San Diego—Quarters, etc.—Spec. 4665—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans quarters, mess hall, etc., at Naval Training Station, here.

H. T., Hilo—Radio Towers—Spec. 4666—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radio towers, here.

BIDS DESIRED

Mass., Boston—Hangars, etc.—June 29, at Office Constructing Quartermaster, Army Base, Boston, 2 steel hangars and 1 oil and gasoline storage house; adv. this issue.

N. Y., Brooklyn—Labor—Spec. 4675—June 20, by Pub. Wks Dept., Navy Yard, furnishing labor to repave Pier D. Wood block furnished by government.

N. Y., Brooklyn—Latrine—Spec. 4672—June 20, by Dept. Pub. Wks., Navy Yard, latrine in machine shop, here.

N. Y., Brooklyn—Painting—Spec. 4676—June 20, by Pub. Wks. Dept., Navy Yard, painting structural steel of shipbuilding ways.

N. Y., Governors Island — Distribution System—June 23, at Office Constructing Quartermaster, Room 510, 39 Whitehall St., New York, electrical distribution system, here; adv. this issue.

N. J., Oceanport—Storehouse—June 23, at Office Constructing Quartermaster, Camp Alfred Vail, 1 story storehouse, here; adv. this issue.

Pa., Phila.—Dredging—June 19, U. S. Engineer, 815 Witherspoon Bldg., 1321 Walnut St., dredging in Delaware River at Ft. Mifflin, 48,400 cu.yd. excav., scow measurement.

Federal Government Work (Continued)

Pa., Phila.—Operating Device—Spec. 4674—June 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor driven sash operating device, here.

Pa., Phila.—Steam Line, etc.—Spec. 4668—June 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., steam line and concrete trench, here.

Pa., Pittsburgh—Hangars, etc.—July 2, at Office Constructing Quartermaster, Pittsburgh, 2 steel hangars and 1 oil and gasoline storage house; adv. this issue.

D. C., Wash.—Dredges—August 2, at Office Chief of Engineers, 2802 Munitions Bldg., for 4 Diesel electric hopper dredges; adv. this issue.

Va., Fort Monroe—Hangars—June 20, at Office Constructing Quartermaster, two 110 x 200 ft., steel hangars, at Langley Field, here. Noted May 4.

Va., Ft. Monroe—Machine Shop—June 20, by Constructing Quartermaster, labor and material for machine shop at Langley Field, here.

Ga, Ft. Benning—Magazines—June 20, at Office Constructing Quartermaster, for 2 ammunition magazines; adv. this issue.

Ga., Ft. Benning—Quarters—June 26, at Office Constructing Quartermaster, Ft. Benning, 20 sets officers' quarters; adv. this issue.

Fla., Apalachicola—Post Office, etc.—July 10, Treas. Dept., Wash., D. C., for U. S. Post Office and Custom House, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Mich., White Fish Point—Dwellings, etc.—June 28, Treas. Dept., at U. S. Coast Guard Headquarters, Darby Bldg., Wash., D. C., dwelling lifeboat house, etc., for Coast Guard Station, here. W. E. Reynolds, Commandant; adv. this issue.

Kan., Ft. Leavenworth—Hangars, etc.—June 30, at Office Constructing Quartermaster, 410 Scarritt Arcade, Kansas City, Mo., hangars, oil and gas storage house; adv. this issue.

Tex., Gilmer—Post Office—July 11, by Treas. Dept., Wash., D. C., construction, complete, incl. mechanical equipment, U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

BIDS RECEIVED

N. Y., Brooklyn—Boiler—Spec. 4,502—Bureau Yards & Docks, Navy Dept., Wash., D. C., boiler with mechanical stoker at Naval Hospital, here, (1) work complete, from Heine Boiler Co., 1120 Pennsylvania Bldg., Phila., Pa., (1) $19,077 (150 days); Almiral & Co., 1 Dominic St., New York (1) $20,685 (150 days) (2) $415; Shevlin Eng. Co., 110 West 34th St., New York (1) $20,688 (150 days) (2) $400.

Fla., Pensacola — Tank — Spec. 4,633—Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank at Naval Air Station, here, from Chicago Bridge & Iron Co., 30 Church St., New York, $9,590 (120 days); Pittsburgh-Des Moines Steel Co., Munsey Bldg., Wash., D. C. $9,750 alternate $9,545 both (120 days); C. H. Turner Co., 17½ South Halifax St., $14,127 (120 days). Noted May 25.

Fla., Pensacola—Wells, etc.—Spec. 4,626—Bureau Yards & Docks, Navy Dept., Wash., D. C., wells and pump house at Naval Air Station, here, from C. H. Turner Co., 17½ South Halifax St., $15,327 (120 days); G. E. Engineering Co., 449 West 42nd St., New York, $17,500. Noted June 1.

Cal., Mare Island — Quarters — Radio Quarters—Spec. 4,632—Bureau Yards & Docks, Navy Dept., Wash., D. C., quarters at Naval High Power Radio Station, here (1) work complete, from Union Constr. Co., 351 California St., San Francisco (1) $4,950 (60 days) (2) $9,850 (80 days) (3) $14,800 (100 days) (4) $18,900 (100 days); S. H. Averill, 749 Indiana St., Vallejo, (1) $5,167 (100 days) (2) $5,167 each (110 days) (3) $5,167 each (120 days) (4) $5,167 each (130 days). Noted May 25.

H. T., Pearl Harbor—Machine Shop—Spec. 4,518—Bureau Yards & Docks, Navy Dept., Wash., D. C., completion of machine shop at Naval Operating Base, here, (1) work complete from W. F. Martens, 53 Franklin St., Rochester, N. Y., (1) $194,677 (300 days) (2) $185,366 (300 days) (3a) deduct $18,951 (15 days) (3b) deduct $18,639 (10 days) (4a) deduct $11,866 (12 days) (4b) deduct $11,847 (8 days) (5a) $13,641 (15 days) (5b) deduct $13,471 (10 days) (6) $1.50. Alternate $190,167 (300 days); Hawaiian Constr. Co., Honolulu, H. T., (1) $500,000 (300 days) (2) $500,000 (300 days) (3a) $3,000 (3b) $3,000 (4a) $2,000 (4b) $2,000 (5a) $20,000 (5b) $20,000 (6) $10 telegraphic modifications deduct from Item 1, $204,283 (2) $212,939 (3a) add $25,682 (3b) add $25,682 (4a) add $16,232 (4b) add $16,578 (5a) deduct $3,584 (5b) deduct $3,475. Noted April 13.

CONTRACTS AWARDED

N. Y., New York—Roof—Spec. 4,611—Bureau Yards & Docks, Navy Dept., Wash., D. C., Monitor roof for central power plant here, to C. Meads & Co., 217 West 14th St., New York, $3,920 (60 days). Noted May 18.

N. Y., Sayville—Radio Quarters—Spec. 4584—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio quarters, here, to W. F. Martens, 112 Cutler Bldg., Rochester, $26,900. Noted May 25.

Va., Norfolk — Roads — Spec. 4542 — Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks at Naval Hospital, here, to J. U. Addenbrooks Sons, Inc., 125 East 24th St., $8,000 (30 days). Noted June 1.

Wash., Puget Sound—Repairs—Spec. 4630—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to roofs of Buildings 84 and 66, here, to Johns-Manville, Inc., 41st St. and Madison Ave., New York, $8,765. Noted May 4.

Cal., Los Angeles—Dredging—U. S. Engineer, 725 Central Bldg., dredging in Los Angeles Harbor, here, to San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, $6,000.

Cal., Mare Island—Riprap—Spec. 4653—Bureau Yards & Docks, Navy Dept., Wash., D. C., riprap for Dike 12, Navy Yard, here, to Daniel Contg. Co., 503 Market St., San Francisco, $1.90 per ton in place total $34,200 (180 days).

H. T., Pearl Harbor—Ordnance Buildings, etc.—Spec. 4566— Aug. 2, by Bureau Yard & Docks, Navy Dept., Wash., D. C., 6 ordnance buildings, railroad track, water main extension, etc., here. Noted Jan 5.

Miscellaneous

PROPOSED WORK

Gas Lines, etc.—Dansville, N. Y.—Newfield Gas & Oil Co., Inc., plans laying many miles of gas lines for distribution of gas, also constructing gasoline extraction plant. To exceed $50,000. Engr. not announced.

Oil and Gas Drilling—Forestville, N. Y.—Lake Erie Gas & Fuel Co., c/o F. L. Dougherty, pres. 744 Central Ave., Dunkirk, plans extensive drilling operations for oil and gas in Arkwright Hills, near here. To exceed $45,000. W. J. Sheehan, c/o owner, engr.

Transmission Lines—Pittsburgh, Pa.—West Penn Power Co., Hartie Bldg., plans three 22,000 volt transmission lines and 2 telephone lines across Allegheny River; three 22,000 volt lines and 2 telephone lines across Allegheny River near Mahoning River. To exceed $50,000. Engineer not announced.

Transmission Line — Boydton, Va. — Staunton Power Co. plans transmission line connecting Halifax and Charlotte. $50,000. E. L. Baptist, secy.

Oil Pipe Line, etc.—Shreveport, La.—Standard Oil Co., Shreveport, plans 350 mi. 10 and 12 in. pipe line, with additional pumping equipment at Oxford, Weavers Spur, Cypress, Boyce, Bunkie and Melville. $5,000,000.

Steel Tram—Racine, Wis.—Wisconsin Gas & Electric Co., 305-6th St., making plans steel tram for mono-rail hoist, will require 150 ton steel. S. B. Sherman, Racine, engr.

Transmission Line and Distribution System—Lawrence, Neb.—Plans 6 mi. transmission line and distribution system. Hollister Eng. Co., Bankers Life Bldg., Lincoln, engrs.

Pipe Line—Casper, Wyo.—Mutual Oil Co., plans 60 mi. pipe line from Salt Creek to Glenrock. $250,000. Engineer not announced.

Gas Line—Rawlins, Wyo.—Illinois Pipe Line Co., Casper, plans 30 mi. 8 in. gas pipe line from the Mahoney to here. Engineer not announced.

Transmission Line—Galt, Ont.—Hydro Comn. having plans prepared for 2200 volt line in rural districts. $28,000. Prices wanted on all equipment. A. B. Scott, Hydro Office, engr.

BIDS DESIRED

Inorganic Dust, etc.—New York, N. Y.—June 20, by J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 3,000 ton inorganic dust, 1,000 cu.yd. paving grits and 500,000 gal. refined asphalt.

Stiff Leg Derrick—Hammond, Ind.—Beatty Machine & Mfg. Co., is in the market for one stiff leg derrick, 75 ft. boom, 5-7 ton capacity.

Transmission Line—Andale, Kan.—June 20, by Ruckel Eng. Co., engrs., Hutchinson, 205 mi. electric transmission line from here to Wichita with distribution systems for three towns. $37,000.

Transmission Line—Fairlands, Okla.—June 20, constructing 10 mi. electrical transmission line, electrical distribution system. $25,000. H. G. Olmsted & Co., 415 Oil Exch. Bldg., Oklahoma City, engrs.

Tunnel—San Francisco, Cal.—June 21, by Bd. Pub. Wks., constructing Pulgas Tunnel in Peninsular Div. of Hetch Hetchy Aqueduct, Contr. 85, involving 8,500 lin.ft. lined and 3,500 lin.ft. permanently timbered tunnels, 500 cu.yd. additional excav. and 500 cu.yd. additional concrete in tunnel, 15,000 cu.yd. earth and 2,000 cu.yd. rock excav. in open cut, 750 lin.ft. 10 ft. 3 in. rein.-con. pipe, 106 cu.yd. mass concrete and 100 cu.yd. rein.-con. in miscellaneous structures, 10,000 lb. reinforcing, etc., for City and San Francisco Co. $760,000. M. M. O'Shaughnessy, city engr.

Breakwater—Port Burwell, Ont.—June 28, by R. C. Desrochers, c/o Dept. Pub. Wks., Ottawa, rebuilding breakwater. $25,000. A. Craig, Royal Bank Bldg., London, engr.

BIDS RECEIVED

Taintor Gate, etc.—Baldwinsville, N. Y.—C. L. Cadle, supt. Pub. Wks., Albany, opened bids June 6, constructing tainter gate at north end of dam, here, also Barge Canal Terminals, Contr. 208, from Troy Pub. Wks., U. C. N. Bank Bldg., Utica, $27,387; W. Bradley & Co., Fulton, $28,802; Mohawk Dredge & Dock Co., Inc., Herkimer, $29,435. Noted May 11.

Dumping Platform and Ramp—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., North River, opened bids June 7, rein.-con. dumping platform and ramp on pier at East 35th St., Contr. 1773, from Ryan & Benedetto, 50 Halsey St., Astoria, $41,777; Lustig & Weil, 103 Park Ave., New York, $42,697; Astoria Contg. Co., 169 Hunter Ave., Long Island City, $43,688. Noted June 1.

Lighting System—Akron, O.—S. Porter, clk. Summit Co. opened bids June 8, complete lighting system for North Hill Viaduct, 2,800 ft. long, from Northern Ohio Traction & Light Co., Terminal Bldg., Akron, $4,600.

Stadium—Chicago, Ill. — South Park Comrs., 57th St. and Cottage Grove Ave., stadium on Lake Front between Roosevelt Rd. and 16th St., from Paschen Bros., 8 North Clark St., $2,478,000; G. Fuller Co., 140 South Dearborn St., $2,495,000; Blome-Sinek Co., 139 North Clark St., $2,560,000. Noted May 11.

CONTRACTS AWARDED

Car Shed, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., constructing temporary car shed at site of Lenox Ave. shops, Agreement "BY," to J. B. Roberts & Co., 1170 Bway., $27,325; installing tracks incl. frogs, switches, bumping posts and miscellaneous work, 147th St. and Lenox Ave., to T. H. Reynolds Constr. Co., 50 Park Pl., $23,285; frogs, switches and tracks for storage of cars 180th St. Yard, White Plains Rd., Line Route 18, to Slattery Eng. & Constr. Co., 10 East 43rd St., $7,435. Noted June 8.

Pier—Norfolk, Va.—Merchants & Miners Transportation Co., West Main St., will build 600 ft. timber pier with galvanized iron shed, by day labor. Private plans.

Road Oil—Wauwatosa, Wis.—For 20,000 gal. road oil, to Camden Petroleum Co., 208 South La Salle St., Chicago, $0.10 per gal. Noted May 25.

Fibre Conduit, Steel Beams, etc.—Ottawa, Ont.—Ottawa Hydro Comn., 109 Bank St., 64,350 ft. fibre conduit, Johns-Manville Co., Ottawa, 27,300 lb. c.i. manhole covers, to T. Lawson & Sons, 376 Wellington St., 7,400 lb. steel beams, to Dominion Bridge Co., Carleton Chambers.

Motor Flusher—Ottawa, Ont.—Bd. Control, 5 ton motor flusher, to International Harvester Co., Sparks St. $9,240. Noted May 4.

Swimming Baths — Ottawa, Ont. — Bd. Control, concrete, brick and tile swimming baths, one on King Edward Ave., to E. Monette, 60 Stirling Ave., $71,800; Plouffe Park bath, to A. Christie & Son, Elgin St., $54,480, plumbing and heating to W. G. Edge Ltd., 142 Bank St., $15,350, tile work to McDougal Ltd., 529 Sussex St., $5,839. Noted May 25.